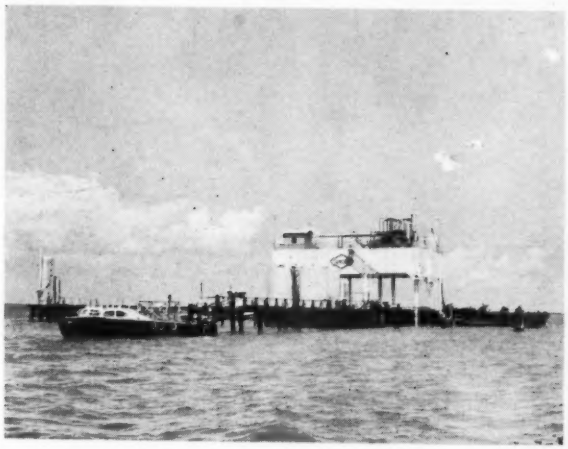
FIRST IN THE FIELD

Offshore

Fifty Cents

JUNE, 1959

LOUISIANA OFFSHORE LEASE MAP
In Color in this Issue



Offshore automation . . .

Sun's Portable Tank Battery

. . . See Page 27

Lake Erie Gets New Style Drilling Structure

. . . See Page 14

World's Largest Sea Water Conversion Plant

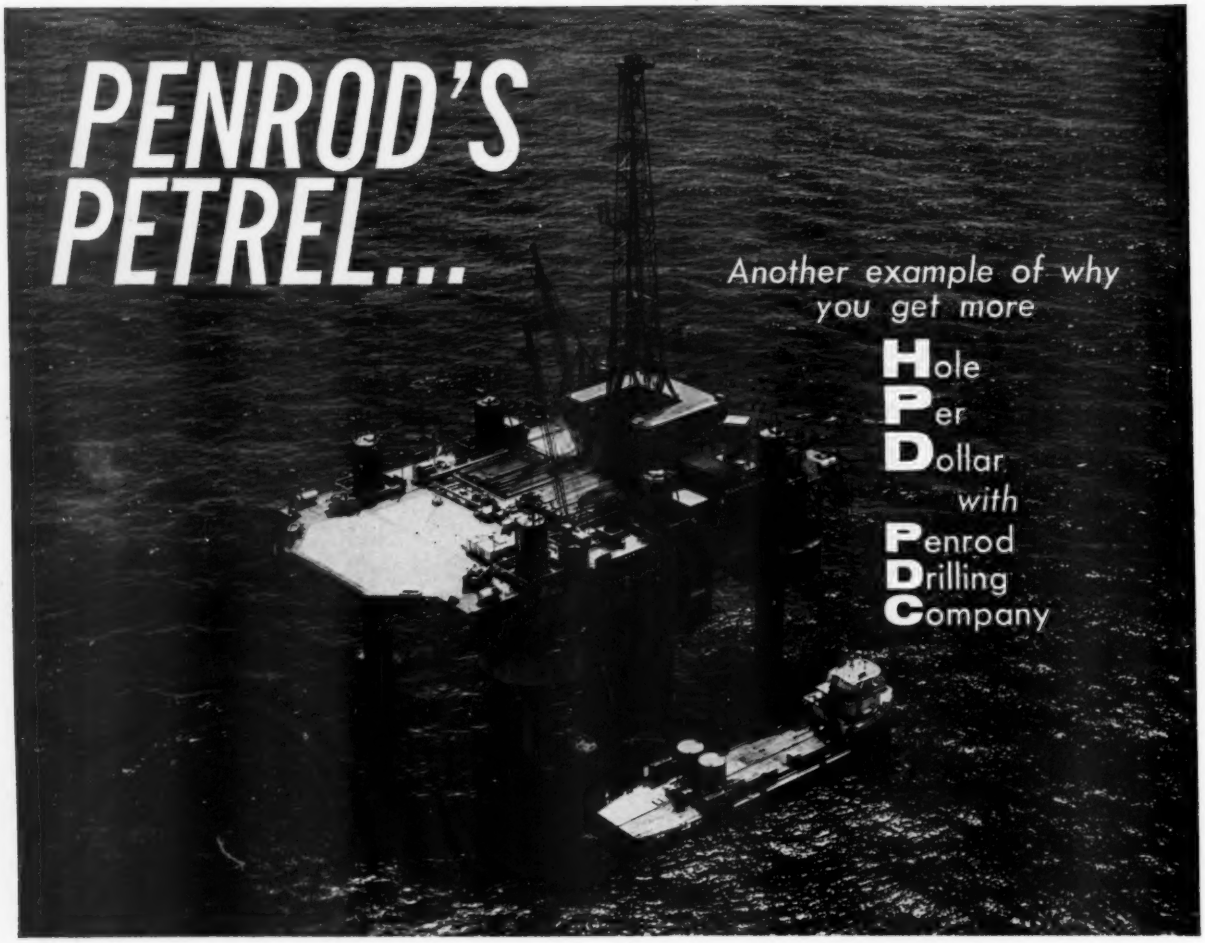
. . . See Page 25

PLUS!

Lake Erie BOOMING In '59!

. . . See Page 13

TABLE OF CONTENTS ON PAGE 4



One of Penrod's three mobile platforms, the Petrel operates in 100 foot water . . . is powered for deepest drilling programs.

YOUR DRILLING PROGRAM will end up costing less when you use Penrod's premium equipment and improved methods. That's why Penrod has invested heavily in new mobile platforms like the Petrel, in new drilling barges, and improved land rigs. They are loaded with power, have high pressure pumps, can handle maximum drill collar weight, are equipped with 2-way radio . . . and the men who run them have been on Penrod rigs for a long, long time.

You are sure of more ***H P D*** *with* ***P D C.***

Call, wire or write:

PENROD DRILLING COMPANY

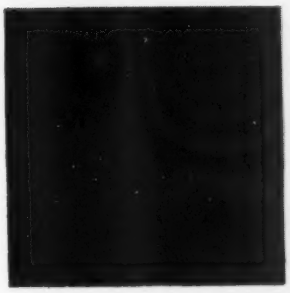
J. P. (Jack) Johnson, Drilling Superintendent

MAIN OFFICE:
1320 MERCANTILE SECURITIES BLDG.
DALLAS, TEXAS
TELEPHONE: Riverside 7-1507

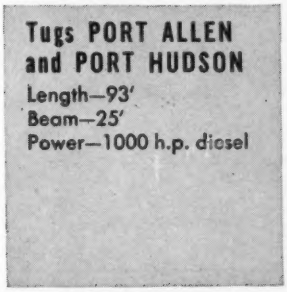
DIVISION OFFICE:
POST OFFICE BOX 508
HOUMA, LOUISIANA
TELEPHONE: UPtown 9-1521

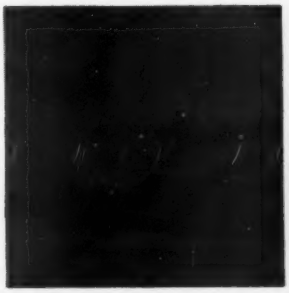
PENROD LAND AND SEA DRILLING COMPANY

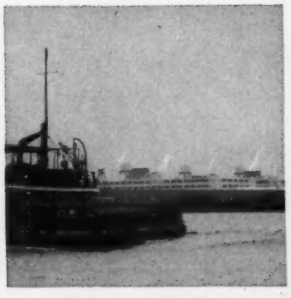
when it's your move–



CALL CRESCENT TOWING







ETS

The Crescent Fleet

Write for free illustrated booklet

CRESCENT TOWING & SALVAGE CO., INC.

625 Hibernia Bldg., New Orleans 12 • FOrest 6-1521

Published Monthly By

Industrial Trade Publications
Telephone PLeasant 6-2427
CONROE, TEXAS

VAC
Member, Verified Audit Circulation

Address all communications to:
OFFSHORE
P. O. Box 977
Conroe, Texas

JOHN H. LATHAM
Publisher

ORVILLE SCOTT
Editor

JOHN CRYAR
Art Editor

JEAN LATHAM
Business Manager

LENA DAVIS
Circulation Manager

JACK BEACH
Staff Photographer
New Orleans, La.

JESSE T. GRICE
Staff Photographer
Morgan City, La.

Subscription price: $2 per year, $3 for two years. Foreign, $3 per year, $5 for two years.
Back issue, 50c when available.
Second class postage paid at Conroe, Texas

THIS MONTH OFFSHORE

Lake Erie Booming In 1959 13
New Style Drilling Structure In Lake Erie 14
World Petroleum Congress Draws 20,000 Visitors 18
Aircraft Used In Offshore Seismic Survey 20
Texaco May Have Big Strike On Costly California Tract 20
Second Test Drilling Ahead On U.S. Side Of Lake Erie 21
Louisiana Plans Offshore Lease Sale 22
Arabian Oil Drilling First Test In Persian Gulf 23
World's Largest Sea Water Conversion Plant 25
Sun's Portable Tank Battery 27
Legal Problems In Latin America 29
What Can We Do About Safety 32
McNisco Gets Powerful New Submersible Rig 34
Pipe Welds Made Sure 44

EXPLORATION

First 1959 Hit Off Texas 35
Two New Oil Sands Tapped In Eugene Island Block 208 35

DEPARTMENTS AND FEATURES

Advertisers' Index 6
Way Offshore With The Publisher 9
This Month Offshore 18
Exploration 35
Mobile Units, Tenders, Self-Contained Platforms 36
New Equipment 41
Service Personalities 43
Slush Pit 46

ADVERTISING

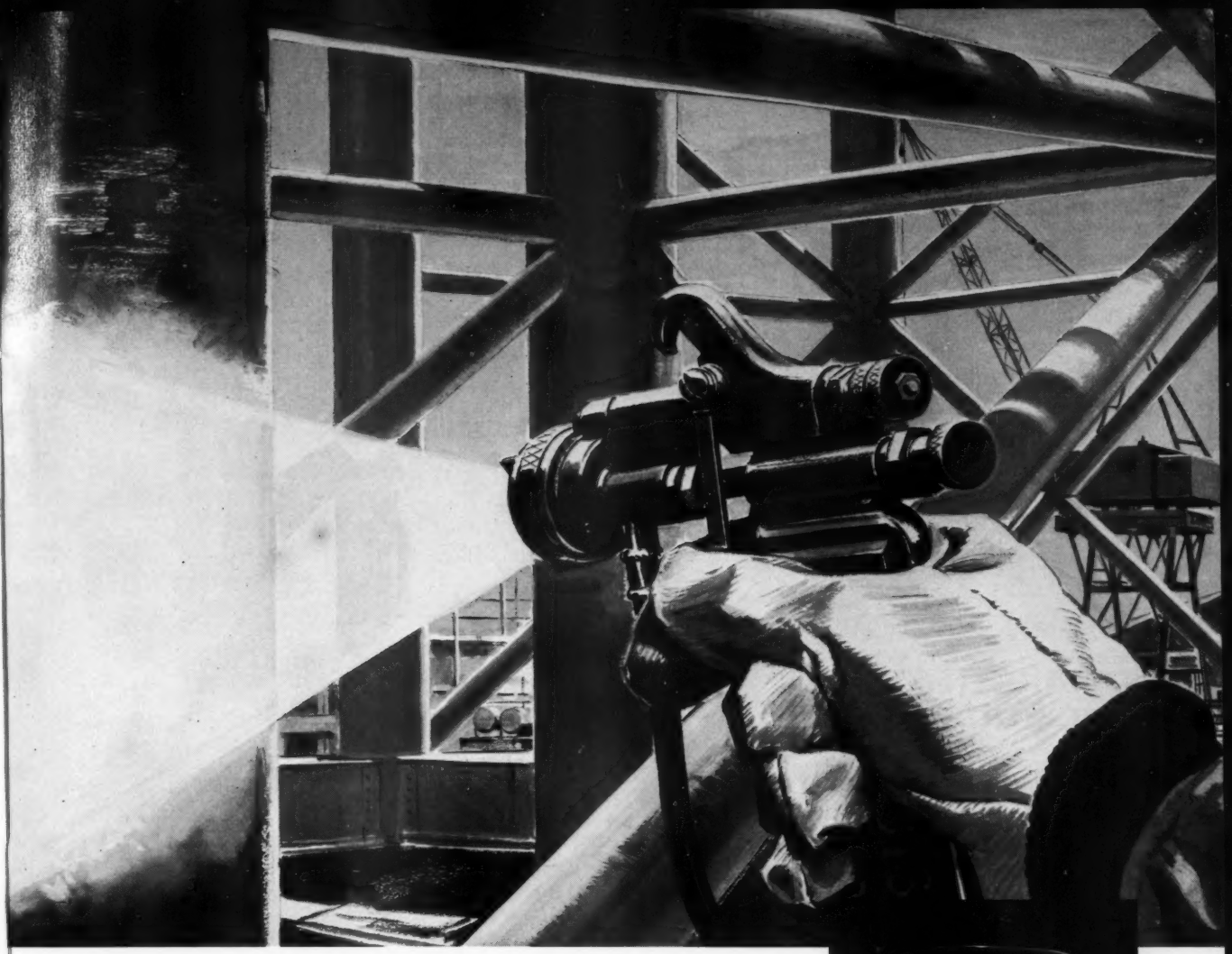
JOHN H. LATHAM
Publisher

MARY COX
Production Manager

REPRESENTATIVE:
JOHN R. HADFIELD
Houston Representative
Phone HOmestead 5-4572
Houston, Texas

REPRESENTATIVE:
DOUGLAS MAGINNIS
Associate Publisher
530 International Trade Mart
Phone JAckson 5-6961
New Orleans, La.

REPRESENTATIVE:
JESS M. LAUGHLIN CO.
West Coast Representative
3142 Wilshire Blvd.
Phone DUnkirk 3-7697
Los Angeles 5, Calif.



The quality of Humble Protective Coatings means big savings offshore

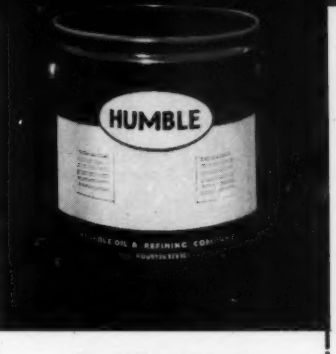
On costly offshore platforms and equipment, the costs of frequent repainting, and of repairing corrosion damage are extreme. Quality paints and coatings mean economy. Humble has developed coatings and systems that give maximum protection against the powerful corrosive action of salt water splash, spray and vapor. These coatings and systems have proved their value wherever drillers go down to the sea.

Humble produces a complete line of paints and protective coatings. For offshore installations, there's a Humble protective coating for every surface from the splash-zone to the crown block, including the working platform and structures of metal or wood on the platform.

Without cost or obligation you can benefit from Humble's research and experience. At your request Humble's trained engineers will make a thorough study of your coating needs, and recommend a complete painting program.

For detailed information on how Humble's protective coatings can save you money, call your Humble salesman, or phone or write:

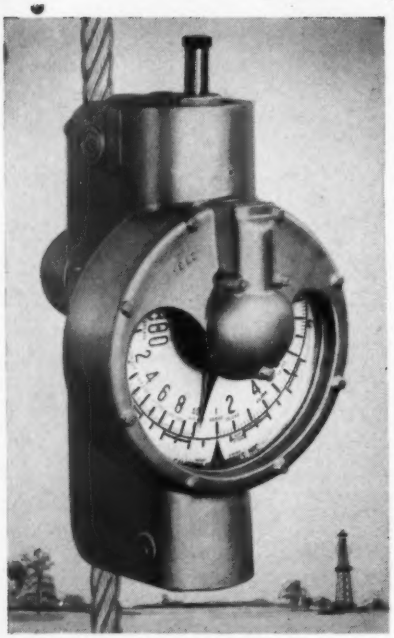
HUMBLE OIL & REFINING COMPANY
Consumer Sales, P. O. Box 2180
Houston 1, Texas



Humble's line of coatings includes –

- RUST-BAN ®
- Vinyls
- Epoxies
- Acrylics
- Phenolics
- Enamels
- Tank coatings
- Hot surface coatings
- Interior and exterior emulsion-type paints

HUMBLE



STRAIGHT DOWN DRILLING

For faster, straighter hole, the tough Cameron Type "C" Weight Indicator has no equal. Temperatures in the field change abruptly from tour to tour but the Cameron Type "C" Mechanical Weight Indicator continues to register—accurately and dependably. The reason is simple—Cameron Weight Indicators have no hydraulic system to pick up or lose pressure with temperature changes. There is no possibility of breakdown due to leakage of high pressure fluids. The large yellow dial of the Type "C" with bold contrasting black and red numerals makes the indicator readily visible from any point on the rig floor. The indicator case is oil-filled (like the Cameron pressure gauge) to provide a viscous damping of dial motion and to prevent damage from vibration.

Give one a try. Your bits will bite into any formation with exactly the right pressure for peak drilling efficiency. All bottom hole operations requiring precise weight control will be easier if you COUNT ON CAMERON Type "C" Weight Indicators.

Cameron
IRON WORKS, Inc.
P. O. Box 1212-Houston, Texas
Export Office: 7912 Empire State Bldg., New York City. In England: Cameron Iron Works Ltd., 76 Grosvenor St., London W. 1, England

ADVERTISERS' INDEX

Adams & Porter 40
American Hoist and Derrick Co. 11
AGENCY—Erwin Wasey, Ruthrauff & Ryan, Inc.
Baroid Division, National Lead Co. ..... map insert
AGENCY—Marsteller, Rickard, Gebhardt and Reed, Inc.
Bedell & Nelson Engineers 45
Berwick Shipyard & Drydock Co. 24
Boston Metals Co. 44
AGENCY—Maurice Chessler Co., Adv.
Brady Engine Co. 30
H. J. Branigan & Co. 40
Byrne & Rice Supply Co. 40
AGENCY—Stone, Stevens, Inc.
Cameron Iron Works, Inc. 6
AGENCY—Boone and Cummings
Casey Craft 45
Casey Craft ..... map insert
Cenac Towing Co. 30
Clyde Iron Works ..... back cover
AGENCY—Graves & Associates, Inc.
Coastal Casting Marine Service 44
Consmar Corp. 38
AGENCY—Stone-Stevens, Inc.
Crescent Towing & Salvage Co. 3
AGENCY—Godwin Adv. Agency
Crescent Towing & Salvage Co. ..... map insert
AGENCY—Godwin Adv. Agency
Cummins Sales & Service, Inc. 25
AGENCY—Magnussen Adv. Agency
Cunningham Engineering Co. 45
Daly-Contracting de Venezuela 24
Dantzler Boat and Barge Corp. 28
Arthur D. Darden 45
Eustis Engineering Co. 45
Excess-Surplus Lines, Inc. 42
Foods and Services, Inc. 16
AGENCY—Radlauer & Caire Adv. Agency
G & H Towing Co. ..... inside back cover
AGENCY—Darwin H. Clark Co.
L. F. Gaubert & Co. 44
Geer Studio 45
George Engine Co. 21
AGENCY—Maginnis & Baccich Adv. Agency
Grant Oil Tool Co. 8
AGENCY—L. J. Swain Adv., Inc.
Gulfport Shipbuilding Corp. 42
Gurtler, Hebert & Co. 22
Hardin and Ferguson, Inc. 38
AGENCY—Godwin Adv. Agency
L. K. Homyer 45
Humble Oil & Refining Co. 5
AGENCY—McCann-Erickson, Inc.
Industrial Waterproofing Co. 39
International Paint Co. 37
AGENCY—E. M. Freystadt Associates, Inc.
Kennedy Marine Engine Co. 28
MacClatchie Mfg. Co. 9
AGENCY—L. J. Swain Adv., Inc.
McDonough Marine Service 24
AGENCY—Maginnis & Baccich Adv. Agency
Robert H. Macy 45
Maracaibo Marine Service C. A. 6
AGENCY—Maginnis & Baccich Adv. Agency
Marine Catering Service, Inc. 35
AGENCY—Leslie Adv.
Marine Service Co. 16
Maritime Insurance Agency 46
AGENCY—Leslie Adv.
Markey Machinery Co. 20
AGENCY—Gail Adv. Co.
Marsh & McLennan, Inc. ..... map insert
AGENCY—Stone-Stevens, Inc.
Minerals & Chemicals Corp. of America 10
AGENCY—Richardson, Thomas & Bushman, Inc.
Payne Mfg. Co. 34
AGENCY—Boone and Cummings
Penrod Drilling Co. ..... inside back cover
AGENCY—Goodloe Stuck Adv. Agency
Petroleum Helicopters, Inc. ..... map insert
AGENCY—Maginnis & Baccich Adv. Agency
The Photo Mart 45
Pittsburgh Coke & Chemical Corp. 26
AGENCY—W. S. Walker Adv., Inc.
Robin Boat Rental Service 46
Security Engineering Division 19
AGENCY—The McCarty Co. of Texas, Inc.
Sewart Seacraft, Inc. 7
AGENCY—Leslie Adv.
L. Smit & Co. 31
AGENCY—Nijgh & Van Ditmar
Southern Marine & Aviation Underwriters 36
AGENCY—Robert Kottwitz Adv.
Thomas L. Stanley, Jr. 45
Tideland Specialty Co. 39
Tideland Specialty Co. ..... map insert
Twenty Grand Towing, Inc. 12
AGENCY—Godwin Adv. Agency
Unit Crane & Shovel Corp. 15
AGENCY—Hoffman, York, Paulson & Gerlach, Inc.
Capt. John F. Vandegrift ..... map insert
John L. Wortham 24
AGENCY—Boone and Cumming
Zapata Off-Shore Co. 23

VENEZUELAN OPERATIONS:

TUGS

BARGES

FOR CHARTER

MARACAIBO MARINE SERVICE C. A.

APARTADO 699
MARACAIBO, VENEZUELA
Phone 76116

Cable: "MARINOS"

429 BALTER BLDG.
NEW ORLEANS, LA.
Phone MA 6824

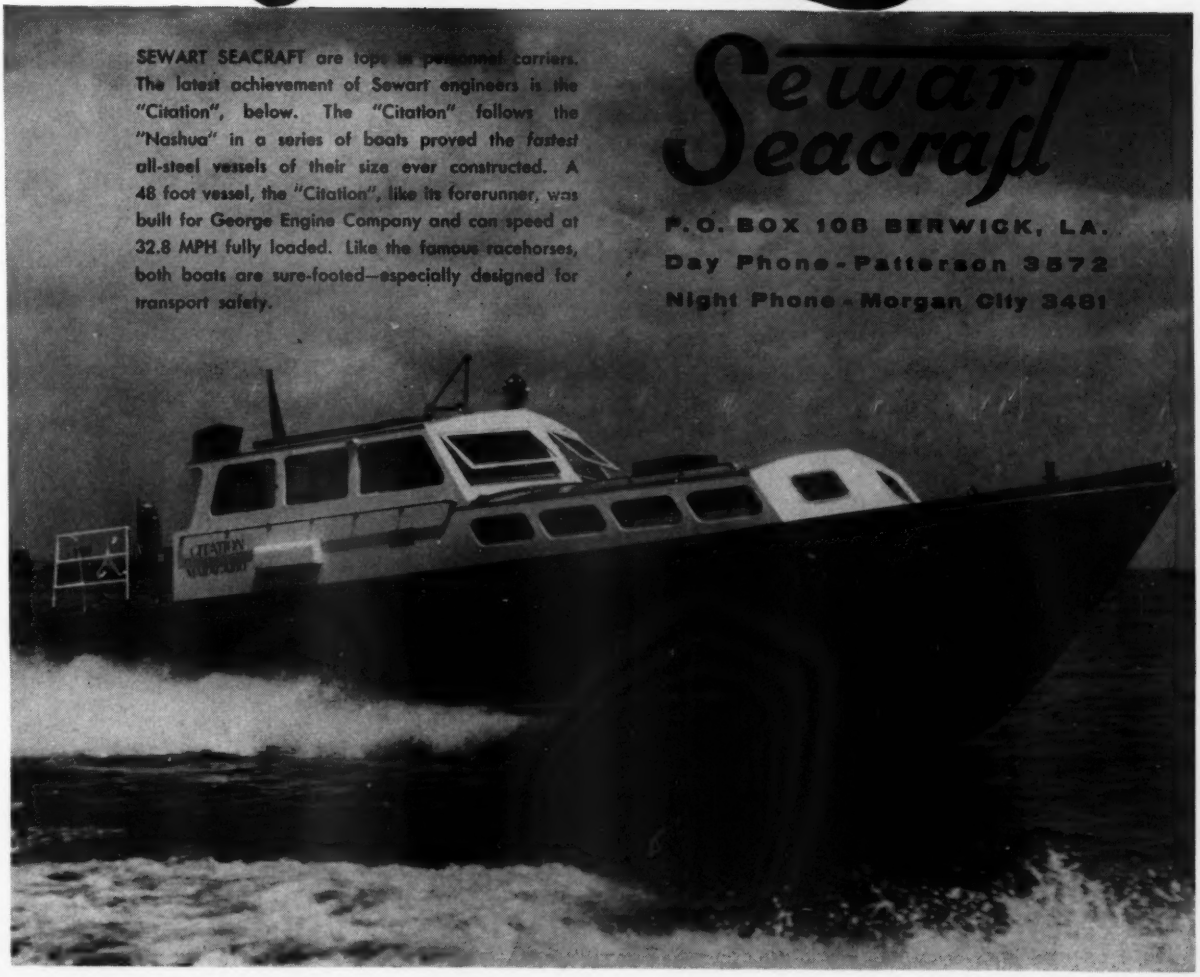
AN ALL-WEATHER FRIEND

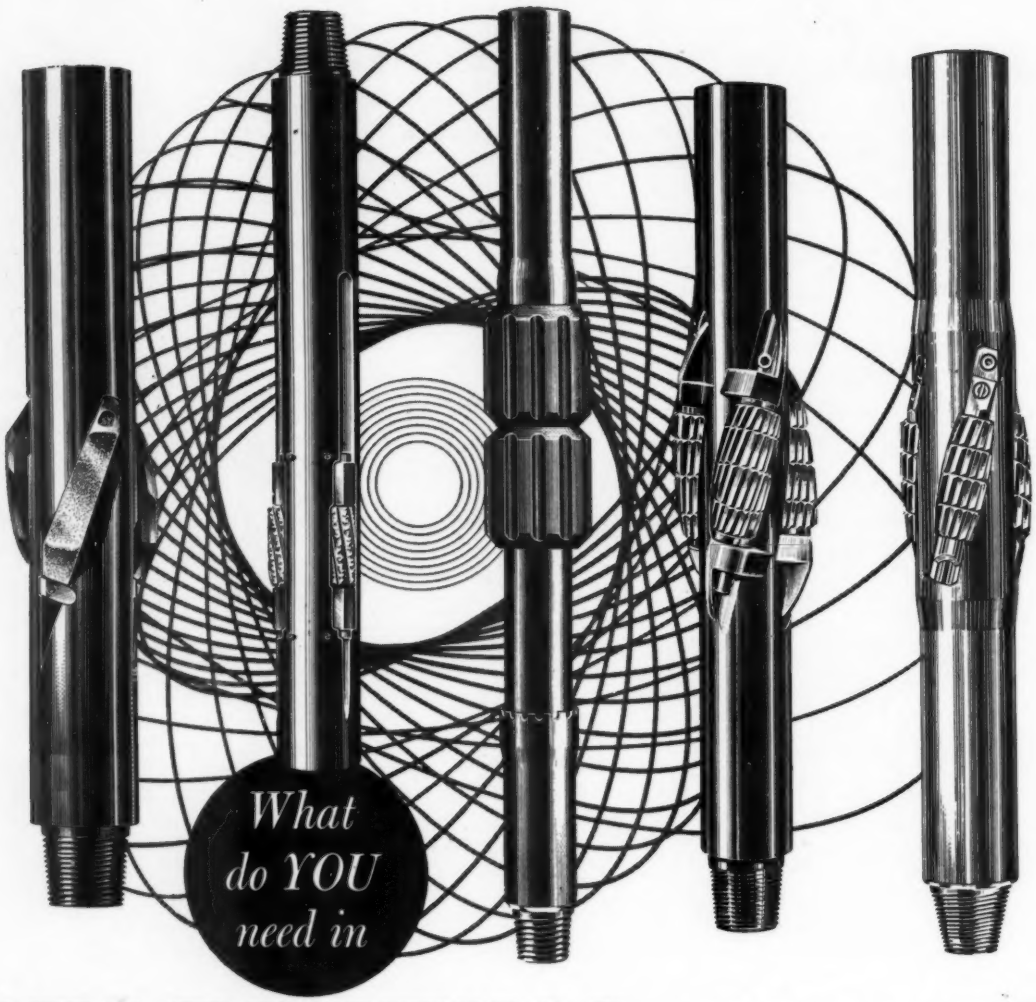
For Speed · For Ruggedness · For Smooth Dependability

SEWART SEACRAFT are top in personnel carriers. The latest achievement of Sewart engineers is the "Citation", below. The "Citation" follows the "Nashua" in a series of boats proved the *fastest* all-steel vessels of their size ever constructed. A 48 foot vessel, the "Citation", like its forerunner, was built for George Engine Company and can speed at 32.8 MPH fully loaded. Like the famous racehorses, both boats are sure-footed—especially designed for transport safety.

Sewart Seacraft

P. O. BOX 108 BERWICK, LA.
Day Phone - Patterson 3572
Night Phone - Morgan City 3481





STABILIZING TOOLS?

GRANT Makes Them All!

There are not just one or two—but *five*—distinct types of Grant Drill String Stabilizers to meet every drilling requirement... every well condition... and every operator preference.

For reaming *and* stabilizing—Grant has perfected the Model 1530, Model 6480-A and Model 2020 Reamers for use in the drill collar string for maximum stabilization and round, full gauge hole.

For stabilizing *only*—Grant provides the Cushion Stabilizer and the Drilblade. Each assures proper drill string stabilization for faster penetration without increased weight on the bit.

Whatever your stabilizing requirements, just remember that, when it comes to stabilizing tools,
***only** Grant makes them all!*

This is just one of the three *families* of Grant Tools made for reaming, hole enlarging and stabilizing. For full information on these, and a wide range of other down-hole and surface tools made by Grant, send for your copy of the complete Grant Catalog *today!*

GRANT OIL TOOL COMPANY

Main Office and Plant:
2042 EAST VERNON AVENUE, LOS ANGELES 58, CALIFORNIA
Cable Address: GRANTOOL

AVENAL, BAKERSFIELD, COMPTON, VENTURA, WILLOWS, CALIFORNIA • LIBERAL, KANSAS • HARVEY, HOUMA, LAFAYETTE, LOUISIANA • LAUREL, MISSISSIPPI • FARMINGTON, HOBBS, NEW MEXICO • NEW YORK, NEW YORK • OKLAHOMA CITY, OKLAHOMA • CORPUS CHRISTI, HOUSTON, ODESSA, TEXAS • CASPER, WYOMING • EDMONTON, CANADA

Way offshore . . .

With the Publisher

Any of you rannyhans who like to read can pick up "Johnny Sixgun," just out, by yours truly. The price is thirty-five cents—it's a pocketbook—and that ain't apt to break you. It's published by Ace.

The kind of yarns our editor spins are the kind that aren't likely to be published (except in a corny column like this un'), but if any of your kids have had their tonsils out lately, they might like this: Question—Do you know what they call a chloroformed rabbit? Answer—An ether bunny.

Beyond that, we haven't seen Johnny Wiech or Red Shibley in a couple of months, so we're behind on current jokes.

On a personal note, I made a speech not long ago before as pretty a collection of young ladies as you're apt to encounter—a sorority. This fact was announced over the loud-speaker system at the elementary school, and when I got home that afternoon, my six-year-old-daughter, Sue, was glowing.

"Daddy," she said, "I'm certainly proud you've been asked to speak tonight." Then she added quite candidly, "But you know how bored I get at long, dull speeches. Can't I please stay home and watch television?"

And she did, of course!

We are pleased to report that our Houston vice-president, John R. "Chester" Hadfield, has recovered sufficiently from his gun-shot wound that he's leaving soon for Chicago and New York City to give interested advertisers and agency people pointers on how to outdraw Marshall Matt Dillon. Actually, John plugged himself in the leg six weeks ago while target practising, and limping around in the interim, I think he's gotten pretty tired of the Chester-Matt Dillon comparison.

So we'll just drop it and think of something new before we . . .

See you next month!

Long John Latham

TRIPLE WIPING ACTION!
TRIPLE SAVINGS!
THE MacCLATCHIE SPIRO-WIPER

Here's the wiper that cleans drill pipe *clean!*

The MacClatchie Spiro-Wiper with triple wiping lips, molded in a spiral for flexibility without tearing, never "skips" over tool joints, collars or large diameter tools. Spiral lip design prevents clogging—mud drops into the casing where it belongs.

Made of tough, reinforced oil and abrasion resistant rubber throughout, the MacClatchie Spiro-Wiper is reversible for even longer service, greater savings. It's made for all popular rotary tables and in all API drill pipe sizes for all your requirements.

Available through all Grant-MacClatchie branches. Ask your Grant-MacClatchie field man for full details.

MacCLATCHIE
MANUFACTURING COMPANY
A Subsidiary of Grant Oil Tool Company
2120 NORTH ALAMEDA, COMPTON, CALIFORNIA
CALIFORNIA - WYOMING - FOUR CORNERS - KANSAS - LOUISIANA
TEXAS - NEW MEXICO - OKLAHOMA - NEW YORK

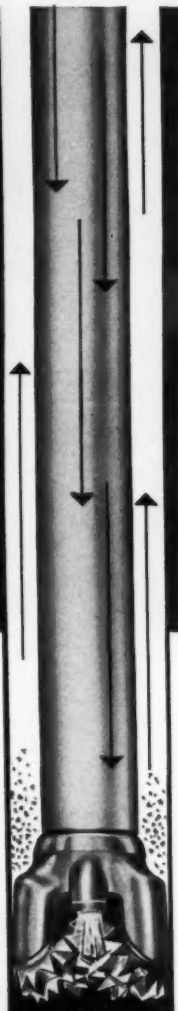
Improved

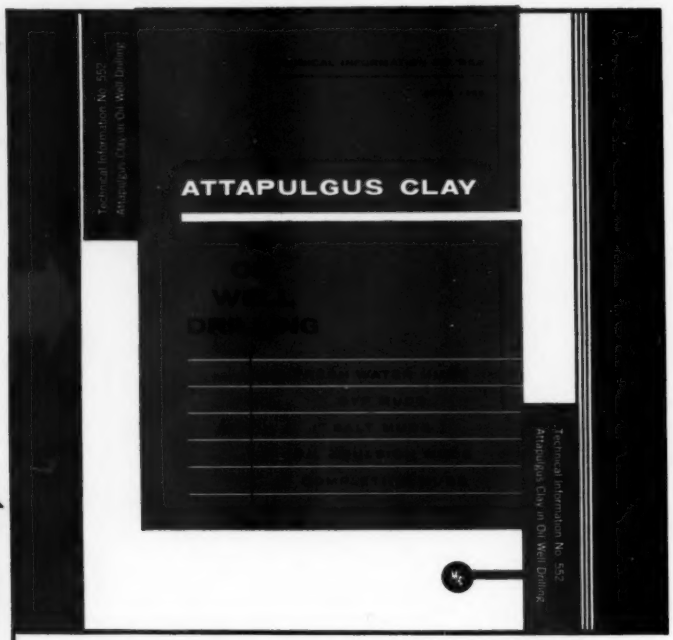
ATTAPULGUS DRILLING CLAY

INCREASES BIT PENETRATION RATES

Here is the "How" and the "Why"

12-page fully graphed brochure... just send the coupon for your personal copy.





"Attapulgus Clay in Oil Well Drilling" is a study-in-depth of the fundamental behavior of the two most widely used drilling clay materials. Presented for the first time are comparisons of the effects which common mud contaminants have on yield, viscosity and filtration properties of attapulgite and bentonite dispersions. Text includes 12 sets of curves, methods for applying *improved* Attapulgus Drilling Clay. Coupon brings your copy.

Minerals & Chemicals Corporation of America

MINERALS & CHEMICALS CORPORATION OF AMERICA
1016 Essex Turnpike, Menlo Park, New Jersey

Please send without obligation Technical Information Bulletin No. 552—"Attapulgus Clay in Oil Well Drilling"

name _____

position _____

company _____

address _____

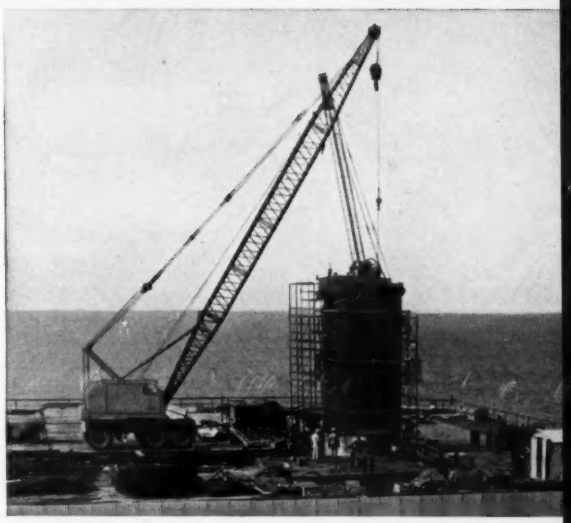
city _____ zone _____ state _____

AMERICAN CRANES ASSEMBLE WORLD'S LARGEST STEEL ISLAND

First of its Kind Sulphur Mining Plant Almost One Mile Long

AMERICAN CRANES HANDLE MATERIALS AND SUPPLIES ON AND OFF PLATFORMS: Located seven miles out in the Gulf of Mexico, off Louisiana, this $30,000,000 offshore mining plant is being built by the Freeport Sulphur Company to mine a major deposit discovered during oil explorations.

Installed on the first drilling platform, above, are two American cranes. During construction they were assisted by a self-propelled 500 series American crawler (right) that handled jobs like assembling the huge sea water boilers. Erection and prefabrication contractors employed additional American equipment on this spectacular job. These included barge mounted revolvers and an 800-ton capacity shear leg derrick, the world's largest floating lifting device.



SEE FOR YOURSELF: Your American distributor is ready to give you a big lift in helping set up your offshore operation. Contact him for detailed and illustrated catalogue information on American's complete line of cranes.

Serving industry for over 75 years

EXCAVATORS-CRANES to 2 yds.-60 tons
LOCOMOTIVE CRANES to 130 tons
DERRICKS-HOISTS to 800 tons
REVOLVER CRANES to 400 tons

AMERICAN HOIST
and Derrick Company
St. Paul 7, Minnesota

AMERICAN HOIST PACIFIC COMPANY
Special materials handling equipment

CROSBY-LAUGHLIN DIVISION
Drop forged fittings for wire rope-chain

ECONOMY

starts with TWENTY GRAND

From the largest fleet of crew and supply vessels offshore select the one most economical combination for your particular operation. Whether you need service for one or for a dozen rigs, TWENTY GRAND's 30 modern boats hold the best solution to any supply problem. Let this versatile fleet serve you.

BOATS

Largest Fleet Offshore

15

SUPPLY VESSELS IN FOUR SIZES

650-ton capacity

550-ton capacity

475-ton capacity

350-ton capacity

DECK AND

OIL BARGES

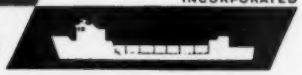
15

CREW/SUPPLY BOATS IN TWO SIZES

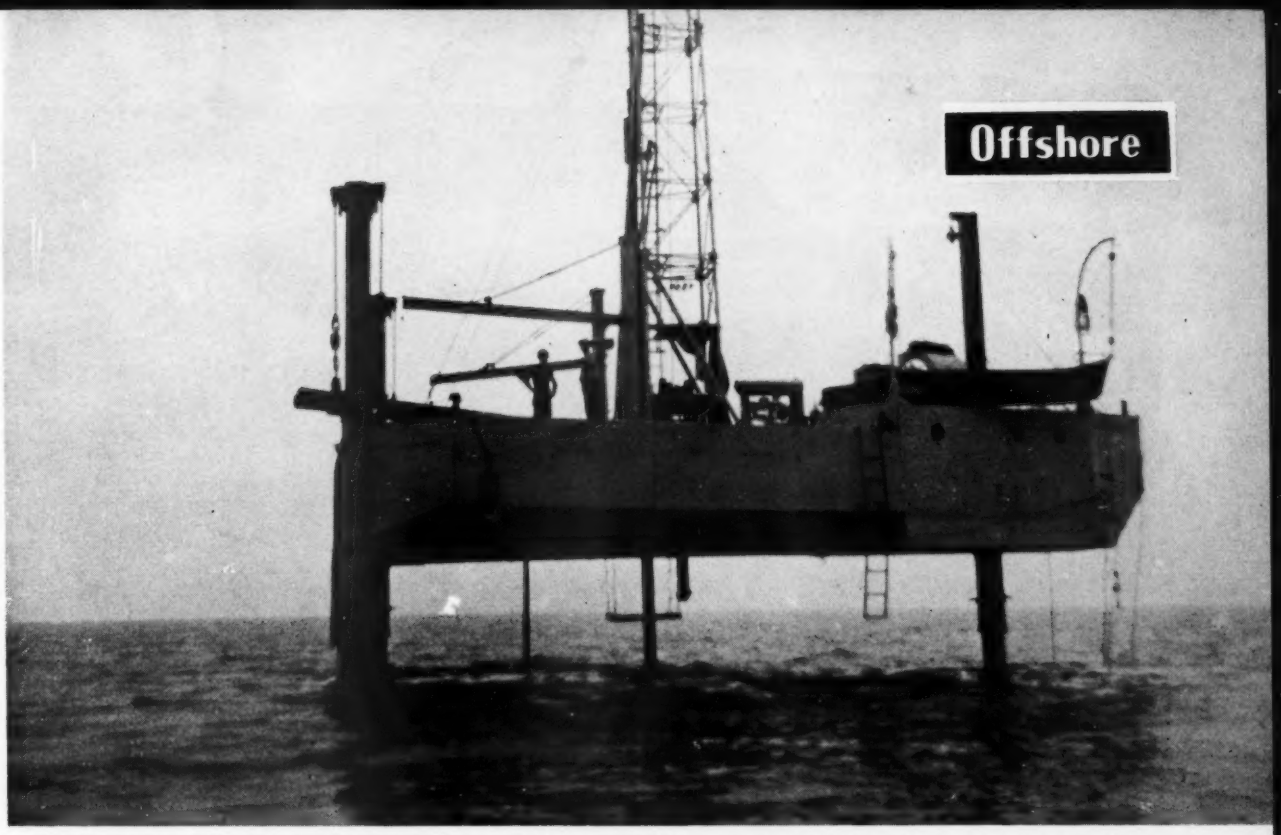
85 footers

65 footers

TWENTY GRAND towing INCORPORATED



OFFSHORE OIL CENTER, MORGAN CITY, LOUISIANA — PHONE: MORGAN CITY 5013



FLOATING DRILLING TOWERS of the type used by Long Point Gas and Oil Limited and Translake Drilling Ltd. are popular in Lake Erie because they are stable and can be moved to a new location quickly.

Operators plan 100 wells . . .

Lake Erie Booming In 1959

Operators will spend $3 million in offshore drilling, spurred on by market prices for gas as high as 45 cents per Mcf

Swinging out onto Lake Erie this spring are about 20 companies planning to invest a record $3 million in drilling operations.

Plans call for drilling of nearly 100 offshore holes, including several exploratory tests, during the seven-month drilling season before fall ice floes drive operators shoreward again. Last season, about 60 wells were drilled at a total cost of $2 million.

Major factor in the Lake Erie boom is the high prices—up to 45 cents per Mcf—that operators receive for their gas. In addition, there are no allowables in Ontario, so operators can sell all the gas they produce.

Most of the gas production encountered to date is in the Guelph and Salina dolomites, between 1050 and 1350 feet. The average well costs from $20,000 to $45,000 to drill, and at the present time, 2.3 million acres in the lake are under permit.

Plenty of new equipment, including drilling platforms, is being introduced into the lake this season, and pipeline construction is moving forward to provide marketing facilities for the gas that is produced.

In spite of the fact that special drilling equipment has experienced a three-fold increase, many of the operators will still be hampered by a lack of equipment.

Place Gas and Oil Company Limited . . . One of the newest operators in Lake Erie is planning the most ambitious drilling program—50 wells. Principle part of this program will be development drilling in the Selkirk area of Eastern Lake Erie with Patterson & Culver of Dunnville, Ontario, as contractor. Last season, Place encountered a 42-ft. gas pay in the Red Medina formation.

To carry out its operations, the company will build six or seven special drilling platforms. One of these was completed recently (see another story in this issue).

In the western sector of the lake, the company is building two wooden platforms for drilling of its first two exploratory wells. One of these wells identified as Place-Gosfield No. 1 is located approximately a mile offshore from Kingsville and a mile west of a gas discovery completed last season by Bluewater Oil and Gas Limited.

The other well, which will be an "oil test" is known as Place-Colchester No. 1 and will be an effort to hit the same field that was recently discovered nearby onshore by the Imperial-Harvest-Submarine group.

This discovery, which might be the extension of the "Trenton trend" along the Cincinnati Arch south of

(Continued on next page)

the border, holds real significance for Place Gas and Oil which owns a 9400-acre block of offshore acreage offsetting the discovery area on the south and west.

Long Point Gas and Oil Ltd. . . . Twenty wells have been planned by Long Point Gas and Oil Ltd. at an estimated cost of $500,000. Most of these will be exploratory tests on the firm's 160,000-acre block in the eastern end of the lake. Two wells completed last year will be tied in to the gas gathering system operated by Union Gas Company.

Consolidated West . . . Preparing for its biggest season is the largest gas producer in Lake Erie, Consolidated West Petroleum Limited, which has 61 producing offshore wells, including 14 completions out of 15 efforts last season.

Underwater Gas Developers Limited, operating subsidiary for Consolidated West, will drill about 15 wells for the parent firm, along with enough contract wells to bring the total to 40 for the season. About half of the Consolidated West wells will be exploratory, and all of the wells for other companies will be in this category. Consolidated West, which first began drilling in the lake in 1943 using wooden platforms on pilings, has a 52,000-acre spread of offshore leases in the western end of the lake.

Underwater Gas is adding two new drilling platforms, or towers, to the six it had last season. New towers are basically similar to previous units, but much stronger and with valuable simplifications built in.

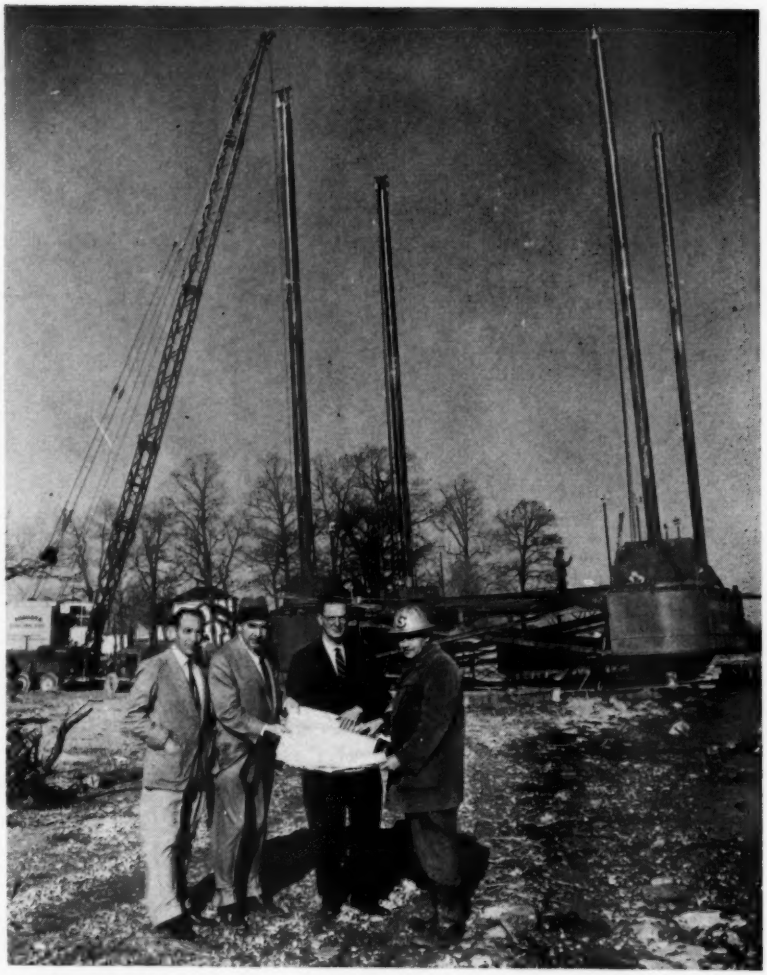
A new pile driving barge is also being built to simplify the driving of pile points which are used to anchor towers in the lake. Previously, this was a cumbersome operation, requiring long steel chasers which were driven with a standard pile driving hammer.

The new equipment is basically an air hammer capable of operating under water into which the pile point is set and the entire equipment lowered to the lake bottom where the pile is driven.

Marine pipelines laid for the parent company in 1959 will be limited to those necessary for hooking up new wells—about six to eight miles of three-in. pipeline and two miles of six-in. pipeline.

However, Underwater Gas will complete an entire pipeline network for Submarine Gas and Oil involving

(*Continued on page* 24)



LATE CHECK of the nearly completed Place Gas and Oil platform is made by (left to right) Clifford R. J. Smith, president of Place Gas and Oil; Harry Tomarin, president, Niagara Structural Steel; Herman A. R. Steltner, Steltner Engineering, platform's designer; and a member of the Milne, Gilmore and German, Naval Architects and Marine Engineers.

Swelling the tide . . .

New Type Platform

Place may build 7 of this new style drilling structure said to be the largest on the Canadian side of Lake Erie

The largest offshore platform on the Canadian side of Lake Erie will drill its first well in the eastern sector of the lake on acreage held by Place Gas & Oil Company of Toronto.

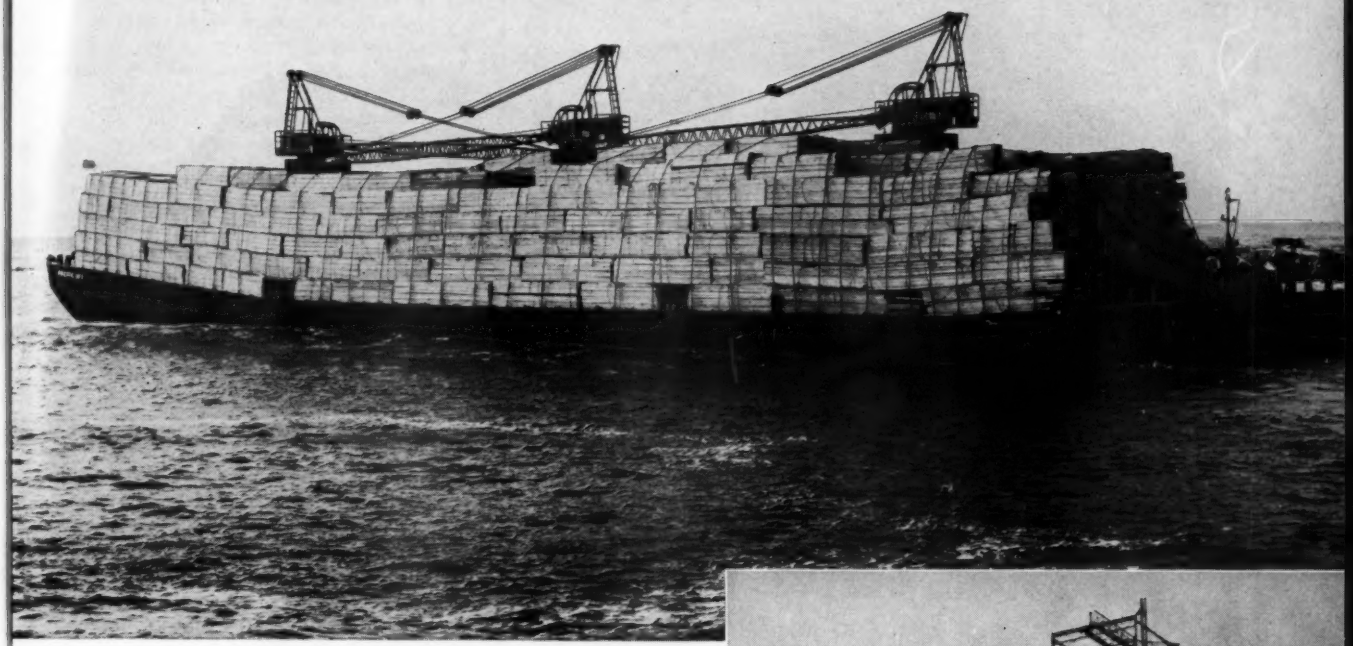
Place, which made its debut in the lake last year, will build six or seven of these platforms. This aggressive operator plans 50 wells during the 1959 drilling season at an estimated cost of $1 million.

Design . . . The new platform, which was designed by Herman A. R. Steltner, marine engineer of Steltner Engineering, St. Catharines, Ontario, is based on the catamaran principle of flotation—employing two large tank floats bridged and cross-braced to support a 40-ft. by 50-ft. platform deck.

Float units . . . During moving operations the unit floats on two all steelwelded tanks of bulkhead construction, each measuring 40 feet

(*Continued on page* 16)

*First oil-lumber cargo combination barge "Pacific No. 1" equipped with three UNIT Mariners. Built for the Pacific Barging Company.



a pair of FIRSTS for UNIT

†First steel drilling island in the Pacific, owned by a nationally famous oil company, has a UNIT Mariner for unloading equipment and supplies from tender to platform.

***FIRST Oil-Lumber Cargo Barge**

†FIRST Steel Drilling Island

Equipped with UNIT Mariners for Cargo Handling

Specially designed and built for the marine field, UNIT Mariner Cranes are being successfully used for handling cargo from a fixed mounting on ships, barges, tenders and offshore drilling platforms.

Unlike the ratings of conventional cranes, the Mariner has all the safety factors outlined in the requirements for cargo gear of the American Bureau of Shipping. Turntable, roller path, rollers, hook shoes, boom hoist mechanism, "A" frame and boom have extra built-in strength. The positive boom stops control the angle of boom elevation, and the FULL VISION CAB enables the operator to see in all directions. All gears are enclosed in a sealed gear case as a protection against salt spray.

The Mariner handles cargo with ease, speed and pin point accuracy. Get all the facts. Write for bulletin.

UNIT MARINER

UNIT CRANE & SHOVEL CORP.
6625 West Burnham Street
Milwaukee 19, Wis., U.S.A.

A5-5027

When You Need the Best in - - -

- **Exploration Boats**
- **Production Boats**
- **Crew Boats**

CONTACT:

MARINE SERVICE CO.

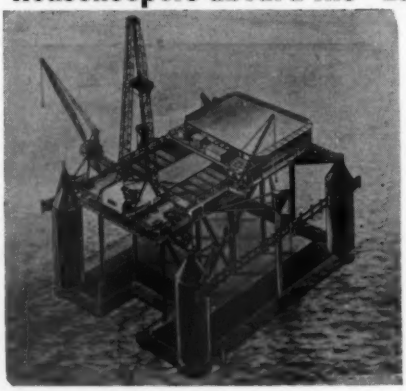
BOAT RENTALS

R. L. "Red" Shibley
HOmestead 5-4122

1220 West 18th Street
Houston, Texas
UNderwood 4-1463

J. D. "Johnny" Wiech
HOmestead 5-7618

Housekeepers aboard the "Louisiana Offshore # 1"



We at Foods and Services, Inc., are proud to have been selected to handle the feeding and housekeeping for the men who work aboard the LOUISIANA OFFSHORE #1 of the Louisiana-Delta Offshore Drilling Corporation. Like these men, we are specialists in our own field—that of caterers and purchasing agents to oil companies and drilling contractors operating offshore.

Consult us first . . .
LET YOUR OFFSHORE HOUSEKEEPING PROBLEM BE OUR PROBLEM—

Foods and Services, inc.

OFFSHORE FEEDING ★ HOUSEKEEPING ★ PURCHASING AGENTS

P. O. Box 763 HOUMA, LA. Phone UPtown 2-3355

New platform . . .

(*Continued from page* 14)

by 9 feet by 6 feet, with the balancing features built in. Vent hole breathers in the tanks will prevent build-up of internal pressures due to thermal expansion.

Inside one of the floats are two 500-gallon diesel fuel tanks with piping and hand pumps to service both drill rig and diesel type generators.

Legs . . . The platform is supported during drilling operations by four 76½-ft. legs. Raising the platform is accomplished mechanically through the use of a power driven chain and chain falls. Bolted onto the spud of each leg is a 40-ft. by 40-ft. mushroom, which acts as an anchor on sandy bottom. The spud base design incorporates 'self clearing' feature utilizing water injection for easy release. An added feature is floating clamps on each leg.

Power plants . . . Drilling rig that will be used on the new platform is a diesel type cable tool rig owned by Patterson & Culver, drilling contractors. A Deutz diesel generator will provide electricity for the four diesel-electric marine motors that raise and lower the platform and for the navigational and working lights and the radio. A self-leveling instrument was built into the electrical installation.

Controls . . . The platform is raised and lowered by an 'Up-Down-Stop' push button station on a mercury switch control panel. There is an individual 'up-down' control for independent operation at each leg.

No shadow lighting . . . Another feature of the Place platform is a battery of eight light standards, each mounting two staggered banks of lights so positioned as to eliminate all shadows.

Added safety features . . . The platform was painted yellow for maximum visibility, and the deck is painted with non-skid paint. It is equipped with a Roland Davits fully equipped lifeboat, listed to Lloyd's certified requirements.

Place Gas and Oil . . . Incorporated in May, 1958, under the sponsorship of the Joseph H. Hirshborn financial interests, Place drilled eight wells in Lake Erie last season, four of which were productive.

The company holds licenses of occupation on eight offshore blocks comprising 206 sq. mi. along the north Lake Erie shore in front of several proven onshore gas fields.

YESTERDAY it wasn't there. Today, he picks it up and wonders: *why did it grow like that?* The miracle of growth! Whether it's a "toadstool" that springs up overnight or a cancer cell that suddenly comes into being, we've a lot to learn about the whole beautiful process of orderly growth . . . and the dreadful, senseless growth that is cancer.

The cancer puzzle is tied up in growth —growth of body cells smaller than the periods on this page.

Scientists, working under grants from the American Cancer Society, are ceaselessly studying cells—normal and cancer cells. And they too are asking: *Why?*

Why do cells suddenly change from normal growth to uncontrolled, disorderly growth? This question can be answered only by the most probing, painstaking and costly research.

Your contributions to the American Cancer Society will support hundreds of scientific studies necessary to save lives today and tomorrow.

Remember: Cancer can strike anyone. But you can strike back *hard* with your dollars. Send your gift to CANCER in care of your local post office.

AMERICAN CANCER SOCIETY

World Petroleum Congress Draws 20,000 Visitors

Soviet Union cancels plans to send delegates, but 50 foreign nations will be represented

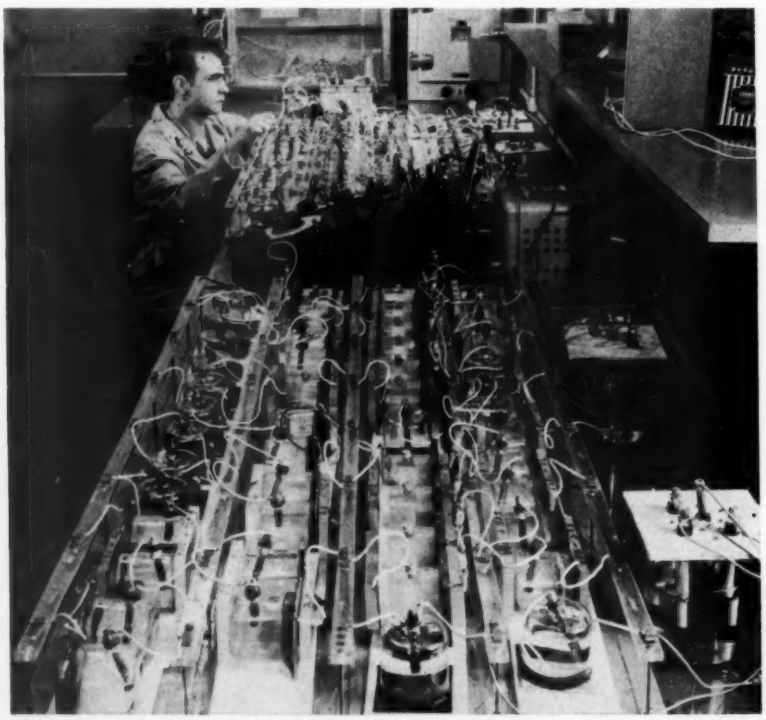
The Fifth World Petroleum Congress held in the New York Coliseum, June 1 to 5 has drawn about 20,000 people, including 5000 to 6000 delegates from 50 foreign countries.

More than 200 exhibits from the United States and foreign countries —among them Germany, Sweden, France, Italy, Holland, England and Canada, occupy the first two floors of the Coliseum, while the third and fourth floors accommodate the technical sessions of the Congress, which is being held in the United States for the first time.

The Soviet Union cancelled its plans to send delegates when the U. S. State Department announced that scientists from the Soviet Union would not be permitted to visit certain areas in this country unless U.S. oilmen were granted reciprocal rights by the Soviet Union.

The Exposition will portray new mechanical applications of the most recent technology in all phases of the petroleum industry.

In the area of oil well operation, one of the most novel exhibits will be a sonic pump designed to vibrate a string of tubing in such a way as to lift the fluids by a series of checkvalves.



Proving ground for pipeline protection—New materials for protecting pipelines from corrosion—including synthetic resins derived from oil—are evaluated in this new laboratory at the Esso Research and Engineering Company headquarters in Linden, N.J. Hundreds of samples of various materials can be tested in this battery of electrolytic test cells.

William Connelly Honored At World's Biggest Oil Show

William L. Connelly, Tulsa, one of the founders of Sinclair Oil & Refining Corporation, was named "Pioneer of Pioneers" and given a special award at the International Petroleum Exposition in Tulsa last month.

The 86-year-old Connelly, who drilled his first well 64 years ago, is one of the best known oil figures in the nation.

Seven "Grand Old Men of the Oil Industry," each representing a division of the industry, were elected and shared the spotlight with Connelly. They are Edmond C. Breene, Oil City, Pennsylvania; William A. Cassidy, Bayonne, New Jersey; Edward I. Hanlon, Tulsa; Frank J. Hinderliter, Tulsa; Wiley B. Hissom, Tulsa; Frank H. Lerch, New York; and S. Miller Williams, Robinson, Illinois.

Attending the world's largest oil show were about a half million of the general public and some 30,000 oilmen who specify and buy equipment and services. Exhibit space sold out far in advance of the show.

Greetings To Titusville Sent 1255 Miles By Pipeline

A microfilm message that traveled 1255 miles via crude oil pipeline will arrive in Titusville, Pennsylvania, early this month.

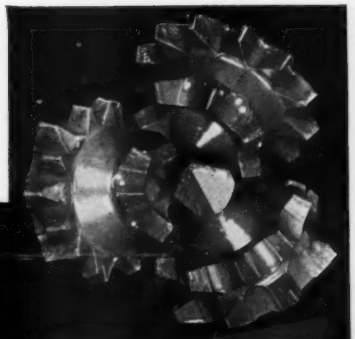
The message, part of the industry's Centennial Year celebration now underway in Titusville, carries the greetings of governors of 33 oil and gas producing states to Titusville.

The message sealed in a capsule and attached to a pipeline scraper, was sent from Corsicana, Texas, May 5.

FORMATION RATINGS: For soft shales, salt, red beds, and others having low compressive strength.

SIZES: 27 bit sizes from 5⅞ inches to 15 inches

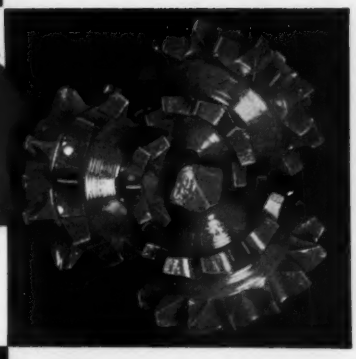
S3

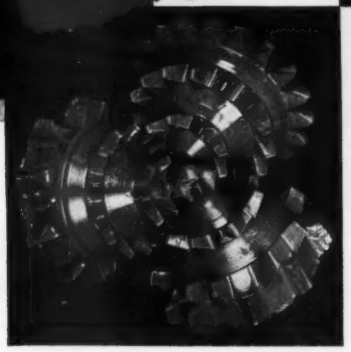


FORMATION RATINGS: For soft to medium formations... firm sandy shale, etc.

SIZES: 23 bit sizes from 5⅞ inches to 12¼ inches

S4





S6

FORMATION RATINGS: For soft medium to medium formations... medium shales, gypsum, salt, chalk, anhydrite, medium hard limestone, and broken or semi-consolidated formations.

SIZES: 27 bit sizes from 5⅞ inches to 15 inches

For Soft Formation (and all) drilling . . specify SECURITY Bits*

Security makes a *complete line* of rock bits, 1120 types, sizes, and variations — 344 made exclusively for SOFT FORMATION drilling.

Like all Security bits, Security's three *soft formation* classifications — the S3, S4, and S6 — are offered in regular, jet, air, or jet-air circulation. Complete specifications are detailed in Security's 1959 catalog, yours for the asking.

Choosing the RIGHT Security bit assures fastest penetration, maximum footage — greatest drilling economy. Specify Security and get the RIGHT bits for every well you drill.

* **344 TYPES, SIZES, and VARIATIONS**

Security

PLANTS: Dallas, Texas; Whittier, California; Manchester, England... SECURITY ENGINEERING DIVISION, 3400 W. Illinois, Dallas, Texas... EXPORT OFFICE: P. O. Box 13647, Dallas, Texas... CANADA: Security Engineering Canada, Ltd., Edmonton, Alberta, Canada... W. HEMISPHERE: Security International C.A., Caracas, Venezuela... E. HEMISPHERE: Security International C.A., London, England.

Available Through Your Favorite Accredited Supply Store

Bay of Bengal

Aircraft Used Successfully In Offshore Seismic Survey

The first commercial use of aircraft for seismic work has proven successful.

Two Catalina flying boats were used by World Wide Helicopters Ltd. recently to conduct seismic surveys for a major oil company in the Bay of Bengal, Indian Ocean.

"We completed 5000 seismic records compared to an expected 3000 before the monsoon set in and accomplished tasks that would have been impossible for ordinary seagoing vessels used in this work," reports Arni L. Sumarlidason, executive vice president of the firm.

Seismic records are produced by exploding a charge about a mile aft of the aircraft, the shock waves registering on special instruments in the plane.

Tops in POWER FOR WEIGHT!

MARKEY HYDRAULIC CAPSTANS

Backed by half a century's experience — designing, building, and servicing the best deck and marine auxiliary machinery that engineering science can devise — Markey Hydraulic Capstans are tops in power for weight. Concentrated power with a punch. Extra-compact to save valuable space. Cost less to maintain because they have fewer moving parts. Same welded construction and enclosed gearing that have made Markey electric, Diesel and air capstans 7-Seas famous for silent operation and long, trouble-free service. Ask for literature, engineering counsel geared to your needs.

TYPE CTW Hydraulic Capstan —compact and power-packed!

Also

ELECTRIC, DIESEL AND AIR CAPSTANS

WINCHES

WINDLASSES

STEERING GEARS

HOISTS

CUSTOM MARINE EQUIPMENT

MARKEY MACHINERY CO., INC.
85 Horton St., MAin 2-4698
SEATTLE 4, WASHINGTON

Represented by
H. J. WICKERT & CO., INC.
770 Folsom St., YUkon 6-5800
SAN FRANCISCO 7, CALIF.

J. H. MENGE CO.
932 N.B. of C. Bldg., JAckson 2-0686
NEW ORLEANS 12, LA.

KNOWN ON THE 7 SEAS SINCE 1907

MARKEY

Designs, Builds & Repairs
DECK MACHINERY
for Better Performance, Longer Life

California

Texaco May Have Big Strike On Costly California Tract

With strikes already coming fast in the California tidelands, Texaco, Inc. appears to have a prolific discovery on the $23.5 million parcel which it acquired from the state last July.

The wildcat, which was drilled in 84-ft. water from a barge owned by Sun Marine Drilling Company, flowed in excess of 1000 bbls. of crude per day, according to unconfirmed reports.

The 3840-acre tract lying offshore from Cuarta Canyon is Parcel D, one of five leased by California in the July lease sale. A previous test drilled earlier in the year on the same lease tested favorably from two zones.

On the adjoining Parcel C, Standard Oil Company of California and Humble Oil and Refining Company will soon erect a stationary platform in 175-ft. waters. Standard drilled a core hole on the parcel, which lies offshore from Gaviota, California, with the only mobile unit built on the West Coast, **Pacific Driller No. 1.** According to reports gas and condensate was found in considerable quantities.

Standard and Humble will soon place a second drilling rig on their Summerland platform, where two commercial wells have already been completed.

Onshore Processing Plant For Summerland Platform

A multi-million dollar onshore processing plant will be built by Standard Oil Company of California to serve the Summerland platform which it operates in partnership with Humble Oil and Refining Company in the California tidelands.

The processing facility will be located about a mile from downtown Carpenteria.

Fish On West Coast Like Life Around Offshore Platforms

Contrary to the fears of many California fishermen, the fish population in Pacific waters is favoring life around the offshore oil platforms.

Bass, bonito, barracuda, sardines, and even the Texas rubberlip perch, are among those wiggling their way from up and down the California coast to the "offshore oil patch."

Strangely enough, prior to the

completion of Standard-Humble's offshore platform at Summerland, California, and Richfield Oil Corporation's Rincon drilling island, the waters of this area were classed as a marine desert. As recently as June, 1958, divers here were lonesome men, except for the company of a few coral-like marine organisms, known in the trade as sea-pens, and a large number of snake-like serpulid worms.

Soon after the resumption of West Coast drilling operations, the oil industry joined with the Fish and Game Department to determine the effects of offshore oil operations on marine life. The Summerland platform and the Rincon drilling island were included among the test sites.

A report issued soon after the positioning of the Summerland platform reads, "Sighted mixed school of 1000 Pacific sardines, 2000 jack mackerel, 800 shiner perch, 50 pipefish, bonito, barracuda, bass."

At Richfield's island, crab, shrimp and lobster battle for space among the 31-ton, concrete tetrapods which protect the island's face from the surf, while over two dozen varieties of fish gorge on the fare provided by a multitude of marine organisms residing in the kelp.

Lake Erie

Second Test Drilling Ahead On U.S. Side of Lake Erie

Drilling of the second wildcat on the American side of Lake Erie has been started by New York State Natural Gas Corporation, Pittsburgh.

The new well is being drilled from New York Natural's portable drilling platform, **Argonyn I** which was tied up last winter when ice floes on the lake prevented operations.

Location of the wildcat effort is in Tract No. 2 near the Pennsylvania-New York border about 3.6 miles from shore. Water depth at the location is 45 feet.

Last year, New York Natural drilled the first offshore well on the American side of Lake Erie about three-quarters of a mile offshore near the Pennsylvania-Ohio border.

That well was drilled to a total depth of 5098 feet and cemented back to 2525 feet where gas "show" had been encountered. The operator then fractured the well, obtaining a daily flow of 200,000 cu. ft. of gas per day. The well has been shut in until New York Natural decides what use to make of the gas.

Both tracts being explored are leased from Pennsylvania for an annual fee of $90,917. Tract No. 1 consists of 19,130 acres, while Tract No. 2, where drilling is now going on, consists of 16,580 acres. In addition to the annual fee, New York Natural will pay the state a royalty on any gas or oil produced.

Argonyn I, from which the drilling is being done, is a 50-ft. by 50-ft. platform standing on 124-ft. legs. Two hydraulic jacks at each leg raise the platform to a working level ranging from 25 to 30 feet above the water lower it when it is time to travel to a new location.

A cable tool type of drilling rig, common in Pennsylvania gas fields, is being used in operations, and Acme Drilling Company of Greensburg, Pennsylvania, is doing the drilling.

Although New York Natural is the first company to drill offshore on the American side of Lake Erie, drilling on the Canadian side dates back to 1913 when gas was found 300 feet offshore.

"SEMARCA 3"

The First of Many

One of the five sister ships recently delivered to Tidewater Marine Service, C.A., of Maracaibo, Venezuela, a subsidiary of Tidewater Marine Service, Inc., of New Orleans, La., by George Engine Co. Inc.

A brand new forty-five foot model, designed especially for carrying oilfield crews in the Gulf of Mexico and Lake Maracaibo, which features a metallized steel hull and corrosion resistant aluminum cabin.

Exceptionally dry, this model has a 25 MPH Cruising Speed when fully loaded and is insulated throughout cabin and engine room. Powered by standard GM 6-71's. GM Power options are available to produce speeds in excess of 30 MPH if required.

DIESEL Power By George Engine

GM GENERAL MOTORS DIESEL POWER

MARINE · OILFIELD · INDUSTRIAL

HARVEY, LOUISIANA · FILLMORE 1-5641

Gulf of Paria

Oil Find By Floating Vessel Undergoes Extensive Tests

First discovery ever drilled from a floating vessel is undergoing extensive tests, but Dominion Oil Company is not giving out anything on the well's potential.

Drilled on the Trinidad side of the Gulf of Paria from a floating vessel owned by The Offshore Company of Baton Rouge, Louisiana, the well will represent the first attempt at completion from a floating vessel.

Designated South Domoil 1, it was drilled in 93-ft. water to a total depth of 11,337 feet.

Louisiana

Louisiana Plans Lease Sale On Offshore Lands Sept. 17

After viewing the $61.5 million the United States netted from its February lease sale, Louisiana has decided to try its luck.

The state will offer offshore acreage in Zone 1, which adjoins the coast, September 17. Deadline for nominating tracts that will be offered at the lease sale has been set for July 15.

American Oil Sells Refinery In Louisiana For Liquidation

American Oil Company, a division of Standard Oil of Indiana, has just sold its Destrahan, Louisiana refinery to Brill Equipment Company of New York and Houston, Texas, for liquidation.

The refinery had a total daily capacity of 37,500 bbls. of crude oil and was completely rebuilt between 1951 and 1953 at an estimated cost of $27 million.

Included in the purchase is a tank farm of 3,000,000 bbls., a grease plant, a lube oil canning plant and a new boiler plant.

Blum Says Louisiana To Be Biggest Producer By 1967

A prediction that Louisiana will lead the nation in oil and gas production by 1967 has been made by a leading oil figure.

Robert U. Blum, president of Creole Explorations, Inc., told a press conference in New York recently that Louisiana, which nudged California out of second place last year, has in its tidelands 648 out of a total of 680 producing wells drilled in the Gulf of Mexico. He said that up to 1957, Texas, with an all-time production of over 20 billion bbls. of oil against less than 4.5 billion for Louisiana, led by a ratio of five to one. In 1957, however, that ratio decreased to only 3.5 to 1.

Deep Sea Divers Awarded Decision In Louisiana Court

A group of deep sea divers has won a decision in the Louisiana supreme court.

In a four to three decision, the court removed the authority of the Louisiana Marine Divers Licensing Board to withhold or issue licenses to marine divers and declared a legislative act of 1958 to regulate marine diving unconstitutional.

The suit, which first came before a civil district court last January, alleged that the law was unconstitutional and discrimatory in that it established a minimum of 10 years' experience for a master diver's rating.

DRIVING CONDUCTOR PIPE - - ?
PIPE PILES - - ?

Our 8800 pound hammer delivers 39,700 ft. pounds per blow.

Our hammers and complete conductor pipe rigging, located at New Orleans and Lake Charles can be transported anywhere in the Gulf area to your location on short notice. We deliver the equipment to your wharf site for transportation with the pipe. This hammer is ideal for work from drilling rigs.

At equal energy output, our diesel equipment weighs only one-third that of steam hammers. This reduces handling and set up costs —minimizes down time.

For Dock Construction, Pile Driving & Driving Conductor Pipes—
CONSULT US—24 Hr. Service

GURTLER, HEBERT & CO., INC.

Phones: Day WH 7-0621 · Night AU 0683 · Wire - WUX-UC.
1539 PLEASURE STREET NEW ORLEANS, LA.

Lake Maracaibo

Floating Crane Will Speed Lake Rigging Up And Down

Cia Shell de Venezuela is introducing a 400-ton floating crane into Lake Maracaibo to speed rigging up and down operations.

The diesel-electric unit, named the **Atlas,** was towed 4700 miles from the Netherlands. It can move a complete drilling floor, with derrick and all drilling equipment from one location to another. In two lifts it can transport an entire block station to a new site.

Formerly, stations had to be fabricated onshore and partially dismantled before being moved onto the lake.

Nigeria

New Drill Barge's Fifth Well Spudded In Niger River Delta

Shell B-P will drill its fifth well from a new mobile drilling barge which it is operating in the Niger River Delta of West Africa.

The wildcat, to be known as Benin West, is located in the bed of Apata Creek. The mobile barge recently drilled a test in the eastern sector to a total depth of 11,189 feet before abandoning it as a dry hole.

Persian Gulf

Arabian Oil Drilling First Test On Persian Gulf Lease

Initial test on Arabian Oil Company Ltd.'s Persian Gulf acreage was scheduled to be spudded last month.

The wildcat will be drilled in 98-ft. water some 25 miles from land by a mobile unit which was towed to the Persian Gulf from Orange, Texas, a trip requiring four months.

The platform, the C. E. Thornton, will be operated by the International Drilling Company, N.V., in a multi-million dollar drilling job that makes International the first drilling contractor to enter the Persian Gulf. International Drilling signed a two-year contract to drill off the Neutral Zone for Arabian Oil, a Japanese firm, which has plans for four tests this year to be followed by five more in 1960.

About $7.5 million worth of equipment is on hand for the first well. A tender and workboats preceded the arrival of the platform in the Persian Gulf.

Texas

Petroleum Land Management Degree To Be Offered At UT

Beginning next September, the University of Texas will become the first school in Texas to offer a curriculum leading to a degree in Petroleum Land Management.

The study plan which has been instituted by the University faculty is based upon recommendations of the Education Committee of American Association of Petroleum Landmen.

Studies leading to the new degree will encompass business, law, accounting, engineering and geology.

Representatives of the Landmen's group and the University will meet in Austin during May to develop plans for a scholarship program by landmen to assist prospective students.

A Revolutionary New Technique Of Overwater Drilling!

In water depths in excess of 100 feet, no system now in use can match the economy of Zapata's revolutionary new method of drilling from a floating vessel. Wherever you operate . . . world wide . . . we can drill your leases in record time and at an impressive saving!

MOBILE DRILLING BARGES — FLOATING DRILLING VESSELS

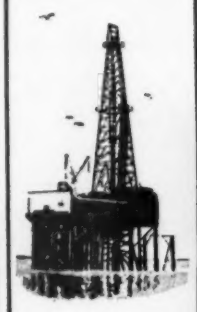
ZAPATA OFF-SHORE CO.
HOUSTON, TEXAS

ZAPATA INTERNATIONAL CORP.

CABLE—ZAPATA HOUSTON

Phone CA 2-0395
2218 First City Nat'l Bank Bldg.
HOUSTON, TEXAS

Phone EX-4001
436 Nat'l Bank of Commerce
NEW ORLEANS, LOUISIANA



MARINE INSURANCE SPECIALISTS
Casualty-Bonds-Fire

JOHN L. WORTHAM & SON
Established 1915
The South's Leading Insurance Agency
Rusk Building Houston, Texas

STEEL BARGES

For CHARTER

McDONOUGH MARINE SERVICE
429 BALTER BLDG. Ph. MA 6824 NEW ORLEANS, LA.
Lafayette, La. Phone CE 4-1052
Harvey, La. Phone MA 6824

Berwick Shipyard & Drydock Co., Inc.

1000 TON FLOATING DRYDOCK

2 MARINE RAILWAYS

PHONE - 6444
NIGHT 7-2364
3306
5249

P. O. Box 168
BERWICK, LA

Daly — Contracting de Venezuela

For further information Tel. 76.671 or write to "DALY"
Apartado 488, Maracaibo. Cable: DALYCON

Lake Erie Booming . . .

(*Continued from page* 14)

the laying of four miles of six-in. and two miles of three-in. underwater lines.

Bluewater Oil & Gas Limited . . . A seven-well drilling program has been slated by Bluewater Oil & Gas Limited, London, Ontario, which completed eight gas wells in the lake last season.

The company's foremost project will be an effort to extend its discovery of last season in Long Point Bay. A minimum of three wells will be drilled in this area.

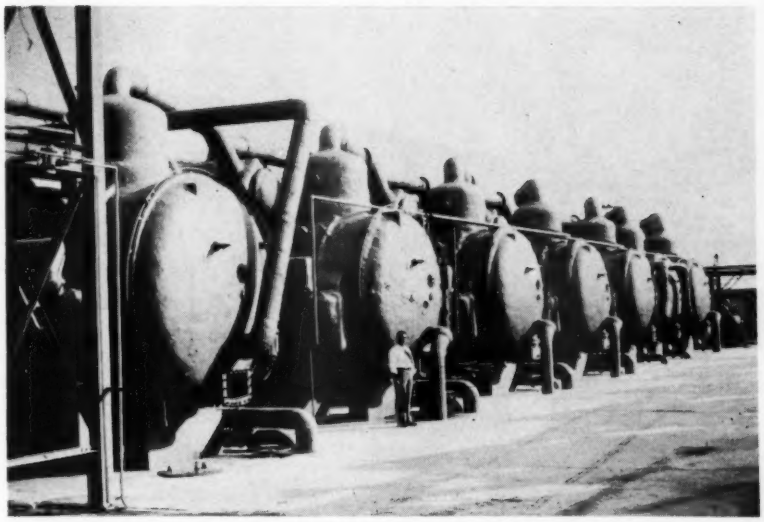
Two wildcats will be drilled offshore from Wheatley on a partnership basis with Harvest Petroleum, Limited, and one exploratory effort and a step-out well will be drilled in Pigeon Bay in partnership with Phillips Petroleum and B-A Oil. A total of 127,000 acres of offshore lands will be probed by the partners.

Midcon Oil and Gas Company Limited . . . A $200,000 drilling and geophysical program will be conducted on tracts covering 28,560 acres by Midcon Oil and Gas Company Limited of Toronto. Midcon will drill two offset wells and an exploratory test for itself, and will have an interest in two offshore exploratory tests that will be drilled by Baska Uranium Mines about 12 miles out in the lake.

Negotiating a contract with Union Gas to sell the production from its four wells completed last year, Midcon will lay a six-in. line about five miles long to shore.

Submarine Oil and Gas, Limited . . . Plans for a four-well drilling program have been announced by Submarine Oil and Gas, Limited, which already has five producing wells on its offshore acreage covering 10,880 acres.

Other leaseholders embarking on drilling programs this summer include Baska Uranium Mines, Anchor Petroleum, United New Fortune Mines, Uranium Ridge Mines, Nu-World Uranium Mines, Peace River Petroleum and Augustus Exploration. French Petroleum of Canada will drill on a farmout from Asamera Oil.



SALT WATER BECOMES drinking water in these huge evaporators, part of the world's largest single installation for converting sea water to fresh water.

World's largest . . .

Sea Water Conversion Plant

Installation on semi-arid Aruba has rated capacity of 2.7 million gals. daily, will also supply electricity

The world's largest single plant for converting sea water to fresh water has been completed on the tiny, semi-arid Dutch island of Aruba, some 15 miles off the coast of Venezuela in the Caribbean Sea.

Designed and built for the Aruban government by the New York engineering firm of Singmaster & Breyer, Inc., at a cost of $11 million, the plant is also the first ever constructed which combines salt water distillation with the production of marketable electricity (15,000 kw installed capacity).

This unique combination opens the door to lower prices for fresh water in many parts of the world, because proceeds from the sale of surplus power could be applied to the cost of water production.

Technological advances . . . Technological advances have been so rapid that it is believed a large water-electric power-type conversion plant built today could produce fresh water from the sea for less than $1 per 1000 gals., assuming a credit for power sales.

In Aruba, production cost has been tentatively estimated at $1.75 per 1000 gals. of fresh water, although a lower figure is expected when exact cost data reflecting power revenues become available. Price to the consumer is, of course, greater since it includes distribution expenses.

Aruba plant . . . The Aruba plant has a rated capacity of 2.7 million gals. of distilled water per day. This is more than enough to supply all of the potable water requirements of the island's 55,000 inhabitants. A substantial quantity is also piped to the island's major industry—the vast refinery of the Lago Oil & Transport Co., Ltd., a Standard Oil Co. (New Jersey) subsidiary.

Paul N. "Red" Adair Forms Own Fire-Fighting Company

Paul N. "Red" Adair, famous in the oil industry for more than a decade as the right hand man to Myron Kinlay, has gone into business for himself.

Adair, who has earned a reputation as one of the world's best qualified oil well fire fighters during his 15 years in the business, says his company will handle well control, oil well fires, blowouts and consultations.

"We are organized to operate on a world-wide basis, around the clock when a well is in trouble," he said.

Time is Money

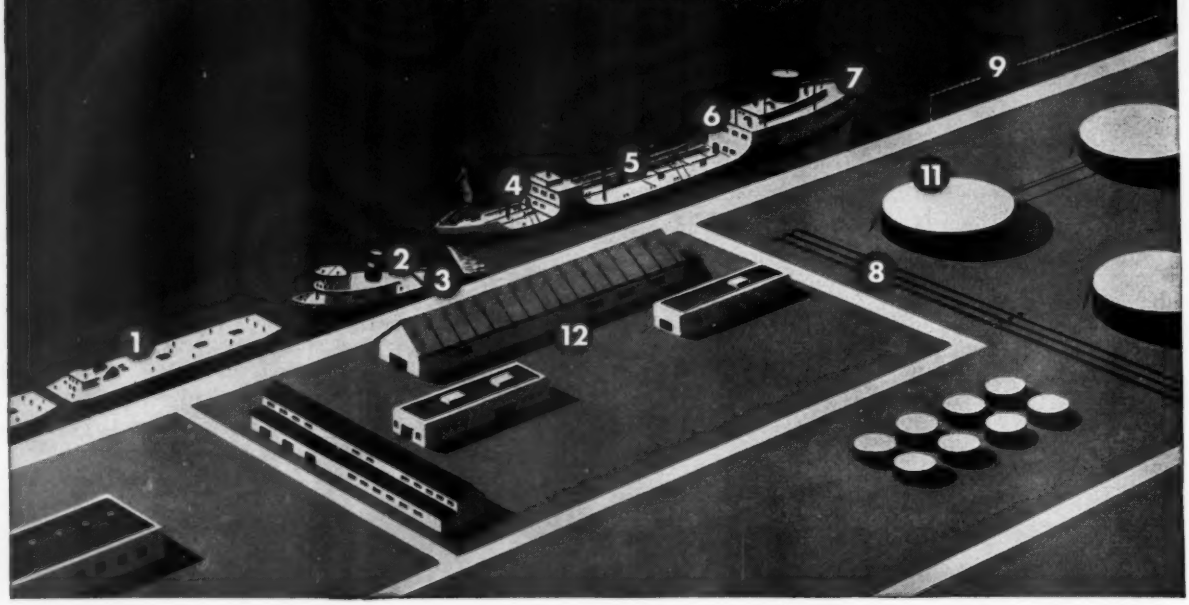
Avoid profit-wasting downtime with Cummins dependable Diesels, backed by factory-type maintenance service. Our factory-trained mechanics are available day or night at 16 conveniently located service shops throughout the Mid-Continent area. It pays to standardize on Cummins Diesels.

16 FACTORY-TYPE SERVICE SHOPS

CU6-8

CUMMINS
Sales & Service, Inc.
P. O. Box 10338
FORT WORTH 14, TEXAS

12 Key Spots where TARSET® will give you better marine corrosion control!



Typical Marine Applications of TARSET

1. Hulls and decks of barges
2. Small ship rudders
3. Propeller shaft struts
4. Anode shielding for hulls
5. Exposed steam pipes
6. Fuel tanks
7. Sterns—against abrasion
8. Liquid loading lines
9. Steel piling
10. Offshore drilling platforms
11. Storage tanks
12. Onshore structures

THERE'S many a marine corrosion problem that can be solved *better* and more *economically* with Pitt Chem TARSET, the time-tested coal tar-epoxy resin coating!

Marine ship repair yards, for example, find that barge hulls coated with TARSET are protected far longer than with coatings formerly used. Only *two* coats are needed, where five to seven coats of other compounds were formerly required. And TARSET'S fast set-up time of four to six hours appreciably *reduces dry dock time.*

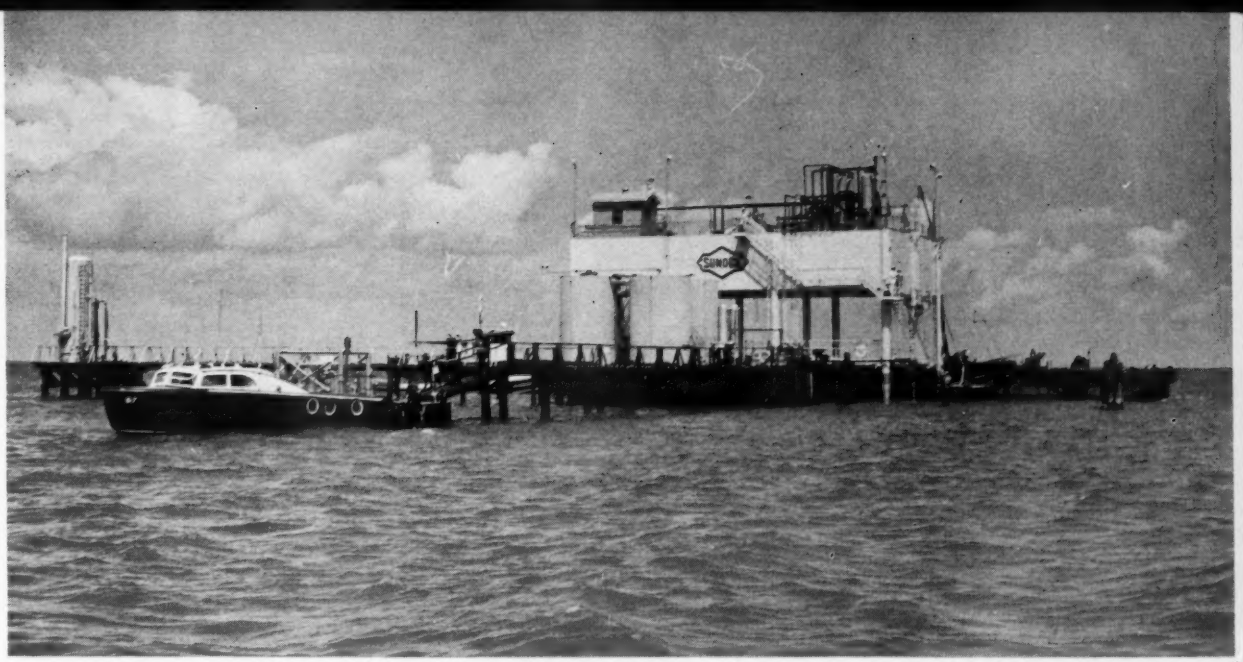
Remember, no other coal tar-epoxy resin coating duplicates the exclusive TARSET formula. It has not been made available to anyone else! *Call your industrial distributor for more information . . . today!*

PROTECTIVE COATINGS DIVISION
PITTSBURGH COKE & CHEMICAL CO.
Grant Building • Pittsburgh 19, Pa.

PITT CHEM Industrial Coatings are available through leading industrial distributors. See the "Yellow Pages."

WSW 7488

PROTECTIVE COATINGS • COAL CHEMICALS • PLASTICIZERS • ACTIVATED CARBON • CEMENT • COKE • PIG IRON • FERROMANGANESE



TANK BATTERY mounted on barge utilizes automation and instrumented control in remote area of Galveston Bay. Barge, which operates in water up to 10-ft. deep, floats empty tank battery onto location and is submerged by flooding with water.

Automation on . . .

Sun's Portable Tank Battery

Unique barge-mounted production facilities have served Sun in Umbrella Point field eight months with routine checks

By C. H. PRIHODA and R. B. ELLIS
SUN OIL COMPANY

Sun Oil Company has put into operation a unique tank battery barge in the Galveston Bay area of Texas. The portable tank battery was designed and constructed to utilize as much automation and instrumented control as possible for safe operations in the remote bay area.

The vessel consists of a rectangular tank mounted above a submersible barge on vertical pipe columns. It can operate in water having a depth of approximately 10 feet.

The barge is used to float the empty tank battery on location. It is then submerged by flooding with water. The barge hull is four feet deep by 54½ feet wide and 96 feet long and is equipped with a two-foot deep skirt about the hull perimeter. The barge area with the skirt provides adequate support and stability for the tank battery.

The tank is mounted on pipe columns which are 26 feet long and 20 inches in diameter. The tank is 11½ feet deep by 39 feet wide and 72 feet long. This 6000-barrel tank is divided into four compartments of 1500 barrels each. The production equipment is located on the deck of this tank.

Production equipment . . . Oil wells that produce into this tank battery have individual flow lines. Each flow line is equipped with a motor valve and a rotary choke assembly on the deck of the tank. This assembly is designed to withstand full well pressures. The motor valves are electrically controlled and pneumatically operated. They control the on and off production of each well.

The production equipment installation was designed by the company's mechanical engineers. Standard production equipment with welded, overhead piping was installed. The production separation equipment consists of two 30-in. x 10-ft., 500 psi separators and three 30-in. x 10-ft., 125 psi separators staged for differential separation. The separators used for well testing are equipped with recording gas meters, a dump type oil meter and an automatic liquid sampler. The oil is directed to the tanks through a manifold network.

Tank compartments have automatic direct reading tank gauges. This eliminates the opening of oil compartment hatches except for an occasional inspection or gauge calibration.

Features . . . An adjustable boat landing was installed on the aft-end of the barge with inclined ladders and handrails leading to the tank deck. A 42-in. chain link fence was installed around the deck.

Electrical power is furnished continuously by either of two generators located on the tank deck. A 15 KW generator driven by an XAH Waukesha engine is used for heavy duty requirements, and a five-KW

(Continued on next page)

POWER BY KENNEDY

. . . aboard this 32' all-steel crew boat whose 38.3 m.p.m. makes her the FASTEST boat of her type IN THE WORLD. Twin screw, she was built by Equitable Equipment Co. of New Orleans and is powered by two GM Series 6-71B marine diesel engines supplied by . . .

KENNEDY MARINE ENGINE CO.

GM GENERAL MOTORS DIESEL POWER

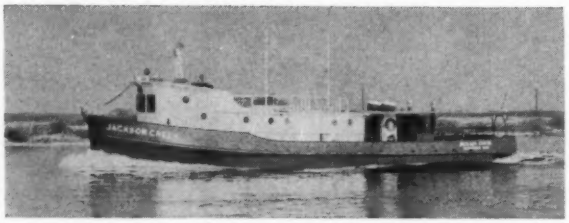
Distributors of General Motors Diesels, Onan Gasoline and Diesel Electric Plants, Bendix Depth Recorders, Surrette Marine Batteries. Call today for quick service.

GM GENERAL MOTORS DIESEL POWER

BILOXI, MISSISSIPPI

P. O. Box 915 Phone ID 2-1531

DANTZLER BOAT AND BARGE CORPORATION



WE CAN FURNISH THE BEST IN

- Exploration Boats
- Production Boats
- Crew Boats

Please Contact:

For Domestic or Foreign Operations —

DANTZLER BOAT and BARGE CORPORATION

P. O. BOX 377

Pascagoula, Mississippi

Phone SO 2-4611 **CABLE "DANTZLER"**

Automation . . .

(*Continued from preceding page*)

Kohler light plant is used for auxiliary power. A one-ton boom with an electric hoist was installed to handle an oil transfer hose and to do general hoisting.

Special U-tube type drainage control was installed in the corner pipe columns. These columns allow only rain water to drain into the bay. Should oil accumulate on the tank deck, it would remain in place and not be discharged into the bay. A sump pump is provided to return any oil accumulated in the columns to the tanks or treater.

Safety . . . Each separator and oil compartment is equipped with a high level safety close-in control. The safety controls are electrically operated and are wired to a centrally located control panel. This panel controls the operations of the tank battery. Individual wells may be opened or closed from this panel. Any electrical or pneumatic supply failure will close in all of the wells in the field.

A six-inch steel coaming excludes any possible oil spills from the generator area.

Another safety feature of the tank battery is a deep well flood pump installed in one of the pipe columns. The pump may be set to flood the oil compartments with bay water when a storm or hurricane is anticipated. The pump will automatically shut off when the compartments are full.

This means that company personnel can abandon the tank battery within minutes of the receipt of orders and avoid the turbulent weather with assurance that the barge will soon be loaded for maximum bearing and stability. Should fast changing weather prevent access to the barge for execution of the normal flood and abandon procedure, the wells will continue to produce until the tank or tanks are filled, then shut in automatically until manually reopened.

Adequate lighting is furnished by 11 110-volt, 150-watt flood lights. Four marine navigational aids outline the vessel. They are powered by the generators at a reduced voltage of 12 volts. In the event of generator failure, a bank of wet cell batteries are used to power the lights.

Tank Battery Barge No. 2 has provided crude oil storage space for the Umbrella Point field in the Galveston Bay area for eight months. Very few operational difficulties were encountered during this period. At present, normal operation requires only a daily routine check.

Oil operators in Venezuela have to provide camps, primary education and free medical attention for workers and families, just another of the . . .

OIL CAMP maintained by Creole Petroleum Corporation on western Lake Maracaibo.

Legal Problems In Latin America

By J. STEWART McCLENDON
Creole Petroleum Corporation

(Second Of Two Parts)

The Venezuelan Labor Law imposes special obligation on extractive industries, most important of which is that of building camps for workers if the place of work is more than two kilometers from a center of population. As part of this obligation, manual laborers receive housing at low rent and all workers are entitled to primary schooling for their children and some free medical attention.

Colombia has similar provisions for oil operations far from urban centers.

Oil company collective bargaining contracts in Venezuela provide benefits in addition to those required by the labor law. Some of these benefits are new, such as minimum wage rates, camp commissaries, an allowance for a manual laborer in lieu of camp housing, and payment for travel time in excess of 30 minutes per day which becomes very important where offshore operations are involved.

Others are increases in existing labor law or social security benefits, such as vacations, overtime and shift bonuses, and restoration of labor law industrial liability and death indemnities.

Colombian collective bargaining contracts have many of the same provisions.

To put some collective contract generalizations in concrete terms, the following figures are offered from the present oil company contracts in Venezuela: minimum daily wage for common laborers, $6 (B^{s} 20.00); housing allowance $1.50 (B^{s} 4.00) per day; overtime or Sunday premium, 50 per cent; night shift bonus 20 per cent; travel time premium, 25 per cent and if more than 2½ hours' travel time daily, 50 per cent; termination indemnities, 1½ months' pay for each year of service.

Taxes . . . Tax structures vary so from country to country that few generalizations can be made about Latin American taxes other than to say that they are frequently high.

Venezuelan taxes include an income tax and municipal occupation tax. Normal income tax rates are 2½ per cent for corporations and 1 per cent for employed resident individuals. The tax is levied only on Venezuelan-source income. Permissible deductions do not differ particularly from United States practice except that only expenses incurred in Venezuela are deductible. All taxpayers pay a progressive surtax commencing at 2 per cent with a maximum of 45 per cent on income over $8.4 million (B^{s} 28 million). If a drilling contractor were to take payment in the form of an overriding royalty, however, his royalty income would be subject to the 50-50 tax imposed on extractive industries.

Argentina's income tax is levied at a flat 30 per cent on domestic corporations and 35 per cent on Argentine-source income of foreign corporations. There is also a 5 per cent tax on dividends paid to foreign shareholders.

In Trinidad, income tax is payable at a flat 40 per cent for corporations and at rates for individuals which progress from 6 mills to 90 per cent on income of over $39,600 (W. I. $66,000). There are, however, certain tax incentives to industry principally in the form of accelerated depreciation, but also in the form of a percentage depletion-type allowance for wells more than 2000 feet offshore

Incorporation . . . In many Latin American countries a foreign corporation need not register to do business if it wishes to operate in that country on a one-time basis, the only requirement being the appointment of an agent who will be liable for local taxes. But in order to do business on an habitual basis, it is neces-

(*Continued on next page*)

Condensed from an article entitled "Latin American Laws Affecting Their Offshore Operations" given at the third annual symposium on "Legal Problems in the Tidelands."

GM DIESEL POWER
General Motors
Diesel Engines
Sales Service Parts
— Distributors —
Onan Electric Plants
Package Boat Deals
BRADY
ENGINE COMPANY
Houma Berwick Louisiana Galliano
Onan ELECTRIC PLANTS

CENAC TOWING CO.

- Crude Oil Transportation
- Deck Barges
- Water Barges
- Drilling Barge Moving
- Diesel fuel delivery to drilling barges and drilling locations

Houma Louisiana
Phone: 2-2413

BRAND NEW!
Louisana Offshore Lease Map Showing—
- Air-Sea Rescue
- Lease ownership
- Platforms
- Pipelines

West half available now, @ $5.00 per copy—or free with each 2 year (for $3.00) subscription to
Offshore
P. O. Box 977 Conroe, Texas

Legal Problems . . .

(*Continued from preceding page*)

sary to register the foreign corporation or incorporate locally.

Registration of a foreign corporation in Venezuela consists basically of filing the following documents in the place or places in which the company will do business: certificate of incorporation, certificate of compliance with any other necessary formalities in the place of incorporation, certified copy of the sections of the law of the place of incorporation applying to incorporation, and certified copy of by-laws. A general power-of-attorney in favor of someone in Venezuela will also be needed. Registration of a foreign corporation in Colombia or Trinidad is similar.

Marine Problems . . . As already suggested, the extent of a country's territorial waters will not normally affect a drilling contractor's offshore operations. The laws of the country issuing the petroleum concession will certainly govern the activities of the concessionaire and his contractor whether or not within the limits of that country's territorial waters and whether or not those limits are recognized by other nations. Two possible exceptions come to mind, however, namely, where there are conflicting claims to sovereignty over the sea bed, as in the United States, and marine collisions involving vessels of different flags.

It would be hoped, of course, that all international boundary disputes will have been settled before work is commenced. If not, one may have to act at his own risk. But even if there is a treaty on the subject, it may not solve all problems.

For example, in 1942 Venezuela and Breat Britain, by treaty, divided between them the bed of the Gulf of Paria separating Venezuela and Trinidad. It was expressly provided that the subject matter of the treaty commenced at the outer edge of each country's territorial waters which was then three nautical miles.

In 1956 Venezuela enacted a law setting the width of its territorial waters at 12 nautical miles. Although this does not derogate the treaty provisions covering jurisdiction over the sea bed, it means that at some points Trinidadians will encroach on Venezuela's territorial waters if they attempt to drill into the sea bed which Venezuela has recognized belongs to Trinidad.

Ship-and-ship collisions at sea frequently present interesting conflicts of law problems. If the collision occurs within the recognized limits of territorial waters, most courts will apply that country's law. But the substantive rules may differ from country to country.

For instance, where it is not possible to determine who was negligent (inscrutable fault) the Venezuelan rule is that the total damages are divided, whereas under United States law each party pays his own damages. Where each party is negligent, the Venezuelan rule is that each bear his own damages, as opposed to the division of damages rule of the United States and the comparative negligence rule followed by the signatories of the Brussels Collision Liability Convention.

Venezuela has another rule which is unusual. In ship-and-ship collision cases, the collision must be protested within 24 hours after it occurs and any action thereon must be commenced within 30 days after the accident.

BJ Oil Tools Establishes New Plant In Netherlands

A new manufacturing plant has been established in the Netherlands by Byron Jackson Tools, Inc., a subsidiary of Borg-Warner Corporation.

Earl M. Rees, formerly export sales manager for BJ Oil Tools, has been named managing director of the new Netherlands based firm and will also serve as European sales manager for Byron Jackson Tools, Inc. G. E. Mullinix will head engineering operations for the subsidiary.

The new company, known as Byron Jackson N.V., will construct a modern manufacturing plan at Etten en Leur, North Brabant Province in South Holland. Plans call for initial completion of 17,000 sq. ft. of plant and office space utilizing a modular expansion concept which allows progressive facility additions. Architects are Dwars, Heederik en Verhey.

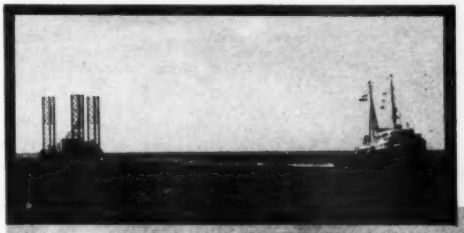
Gulf Coast Firm Licensed To Sell 2 Resin Products

Industrial Waterproofing Company has been licensed to formulate and market Shell Chemical Corporation's new "Guardkote" epoxy resin pavement surfacing material, and has been appointed a distributor for Thiokol Chemical Corporation's liquid polymer LP-3, it has been announced by Milton W. Ellisor, vice president.

Ellisor said that while his company has been licensed to market Shell's "Guardkote" nationally, it would probably concentrate its efforts in the Southwest region. Industrial Waterproofing will distribute Thiokol's LP-3, used in conjunction with the formulation of epoxy resins, in the Gulf Coast area, including the Texas "Valley" section and southern Louisiana.

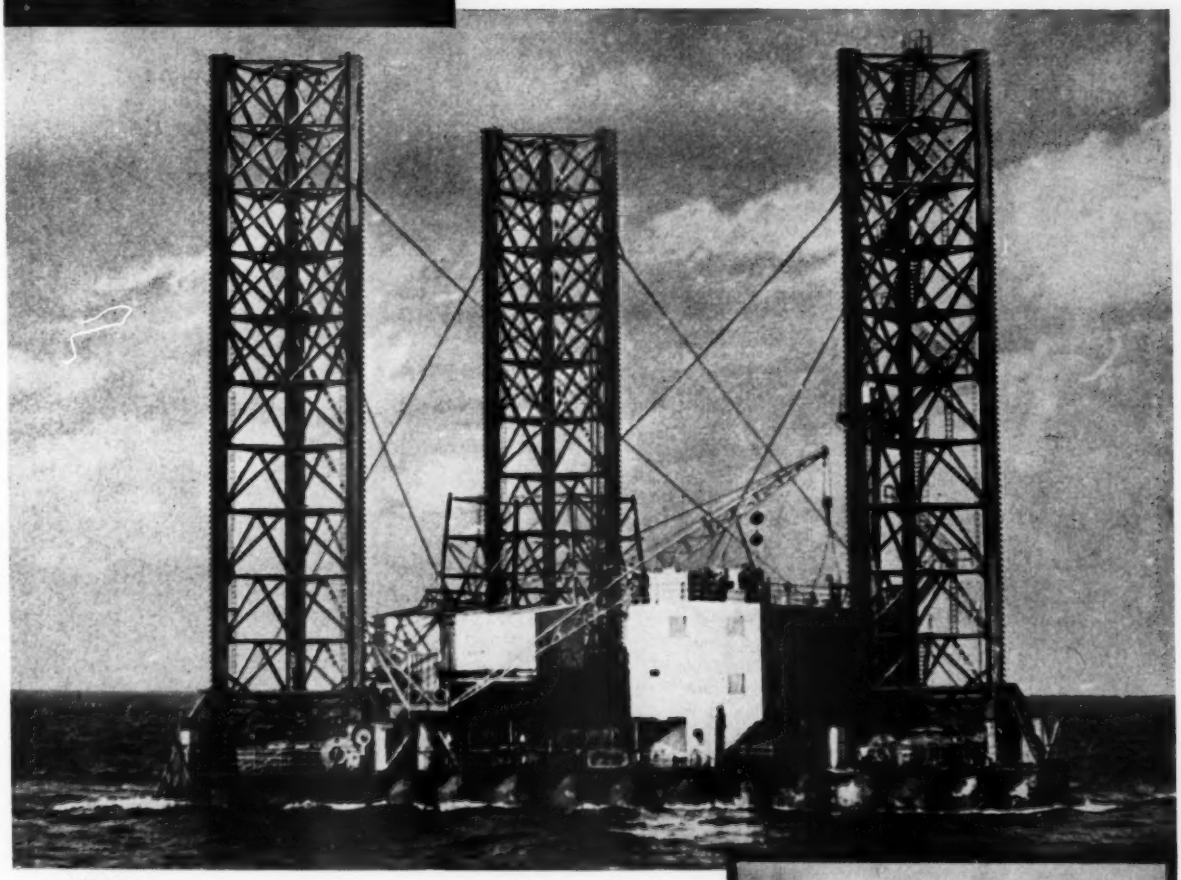
L. SMIT & CO's

INTERNATIONALE SLEEPDIENST — INTERNATIONAL TUG SERVICE



today Smit's tugs tow heavy objects over long distances.

1959 Ocean-going tug Clyde towing 11000 miles to bring drillrig C. E. Thornton to the Persian Gulf.



fifty years ago they already had many years experience with long-distance towing.

1909 Smit's tugs Zwarte Zee and Oceaan towing 7000 ton floating drydock from river Tyne (United Kingdom) to Callao in Peru - 10300 miles.

ROTTERDAM
Head-Office: 5, Westplein
Telephone: day-112700 night-64865
Telegrams: Tug-Rotterdam
Telex: 22247 (attended day and night)

NEW YORK
Phs. van Ommeren Inc.
11, Broadway
Telephone: HAnover 2-8151
Telegrams: Smittug

NEW ORLEANS
Biehl & Co.
Sanlin Building - Room 401
442, Canal Street - New Orleans-12 (La)
Telephone: Express 2501
Telegrams: Biehl

20 OCEANGOING TUGS UP TO 4200 H.P. 23 COASTAL AND HARBOUR TUGS 20 SALVAGE VESSELS

COSTLY ACCIDENTS still happen on the Continental Shelf, sometimes involving the loss of a multi-million dollar rig, sometimes taking human life.

Dilemma in the Gulf . . .

What Can We Do About Safety

Question is: Can the marine oil industry by collective effort provide overall safety, or will they too fall under fettering legislation?

By H. E. DENZLER

The California Company

It had long been suspected that considerable hydrocarbon deposits existed beneath the seabed of the continental shelves.

The existence of such deposits has been confirmed by an outstanding pioneering project remarkable in any age, but receiving only brief notice in ours.

The petroleum industry went to sea fully realizing the difficulties and dangers to be overcome.

When we begin to analyze safety in offshore operations, one fact immediately becomes apparent.

We still have the safety problems of the petroleum industry native to all drilling and producing operations. To these have been added the safety problems peculiar to the marine construction, shipping, air transportation, communication and pipeline industries, among others.

We also have numerous problems unique to offshore drilling and producing operations.

Condensed from a paper entitled "Safety in Offshore Operations" given at the Spring Meeting of the Southern District Division of Production, American Petroleum Institute in the Roosevelt Hotel, New Orleans, Louisiana.

Offshore dilemmas . . . You know the dilemmas in arriving at presumably adequate designs and reasonably safe and satisfactory construction and erection procedures. Although the pioneering element in the efforts of the men who began this work should not be belittled to any degree, it must be admitted that numerous safety codes, manuals of recommended practices, tables, studies, even opinions, existed to provide guidance.

If we were to assemble in one place all the laws, rules, regulations, codes and manuals written to legislate, govern and direct safety, we could very probably fill a good-sized room.

In spite of this mound of literature, accidents happen without prior reference to legislation or regulation.

These happened . . . For instance, it is not unknown for the steering wheel on a tug to spin so violently and unexpectedly as to flip the helmsman right through the pilothouse door and into the water. Luckily this helmsman could swim until his absence was noted and he could be rescued, thoroughly water soaked but uninjured.

And then there was the unwary cook who had decided to surprise the crew with some crab gumbo. He reached for a crab, intending to clean it, but the crab reacted with surprising speed and latched onto the cook's finger. The cook gave his hand a terrific shake, the crab flew across the galley and its shell cut such a gash in a helper's forehead that several stitches were required to repair the damage.

An experienced workman became tired of using a hand pump to pressure up the tubing to release a storm choke. He connected a fully loaded oxygen bottle to the Christman tree and released the oxygen into the tree and tubing. Fortunately, he lived, but very painfully for many months.

There have been several tragic accidents involving offshore equipment. Now these and practically every offshore accident of which we are aware could have happened inside the coast line as well as outside, but accidents occurring in offshore waters seem to receive added attention.

Safety of personnel is of first importance in the petroleum industry

(*Continued on next page*)

and nowhere more so than in offshore operations.

Abnormal environment . . . All know that the environment is abnormal. Practically all of us have, at one time or another, been exposed to and personally confronted by some of the hazards. Safety is so paramount that many of the oil companies have established safety codes and set up safe operating practices of their own.

But accidents still happen.

Lack of experience . . . In reviewing numerous offshore accidents, one factor recurs with such striking frequency as to warrant attention. It can be summed up in three words—lack of experience.

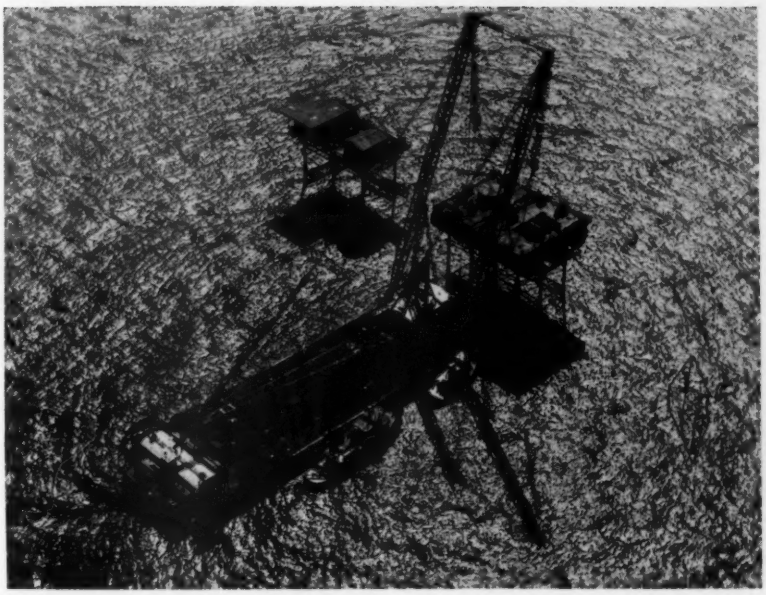
The scope of offshore operations is so vast that men with practically every known kind of experience are needed. Among them we find divers, lawyers, mechanics, cooks, corrosion engineers, derrickmen, gaugers and hundreds of others, each one virtually a specialist. It is truly amazing that there were not more accidents than we have had, considering the diverse skills required.

Bridging the gap . . . Our next step in attempting to further eliminate offshore accidents, and one upon which work has already been done, appears to be the bridging of the gap between excellent company regulations presently existing and the governmental regulations applying in the various divisions of offshore operations.

The Offshore Operators Committee was organized about ten years ago primarily to acquaint the Coast Guard and other governmental agencies with the problems confronting the industry in the installation, management and operation of drilling and producing equipment in the Gulf of Mexico.

The manual . . . One noteworthy achievement of the Committee, through the Panel of Advisors, was writing and publishing the "Manual of Safe Operating Practices on Raising, Lowering and Moving Offshore Mobile Drilling Platforms," in collaboration with the American Association of Oilwell Drilling Contractors.

Work was started on this manual by the Offshore Operators Committee in 1956. It was entirely clear to the writers of the manual just what subjects should be covered, for three accidents had occurred which resulted in loss of life. These particular accidents involved floating mobile platforms.



OFFSHORE CONSTRUCTION and erection operations present the marine oil engineer with a dilemma in arriving at reasonably safe procedures in this everchanging environment.

Two of them capsized, another was severely damaged by heavy seas.

Other rigs had, and have, overturned or listed severely while in contact with the seabed but no lives have been lost. It was evident, that the greatest risk could be expected while a mobile platform was being raised, lowered or moved.

Purposes of the manual . . . The purpose of the manual is therefore as expressed in the title, "Safe Operating Practices on Raising, Lowering and Moving Offshore Mobile Drilling Platforms." Its scope is to cover such movements outside of shallow and protected waters where danger could be anticipated during total or partial flotation.

The manual is an operational guide based upon the knowledge and experience of the owners and operators of mobile units. The principle thesis is simply that an experienced supervisor be in charge at all times during any raising, lowering or movement with complete authority and responsibility that the operation being conducted be executed in an unquestionably safe manner.

The manual recommends that only persons essential to the planned movement be allowed to remain on board; that these persons wear life jackets at all times during movement; and, that they remain in the open insofar as is practicable consistent with their duties.

This manual, if properly used, should contribute substantially toward safe movement of offshore mobile drilling platforms.

Industry wide effort . . . Our position is very obvious; we must have continually increasing safety in each phase of every branch of the entire offshore operation.

It must be a collective effort subscribed to by every operator, contractor and person engaged in offshore work. It is a tremendous task which may now be beyond the limits of activity of, for instance, the Offshore Operators Committee, the Panel of Advisors on Offshore Operations to the Commander of the Eighth Coast Guard District or the American Petroleum Institute.

Offshore drilling and production began in the Gulf of Mexico off the shores of Louisiana and Texas. Operations are now underway off the coast of California and Florida and in the Great Lakes. We shall no doubt soon see rigs operating in Alaskan waters.

Means must be found to make certain that the unexperienced are at least aware of the multitude of dangers facing them in offshore waters.

If we do not exert our best efforts to provide maximum safety for not only our personnel, but also for all persons working on offshore locations, we must face the threat of fettering legislation.

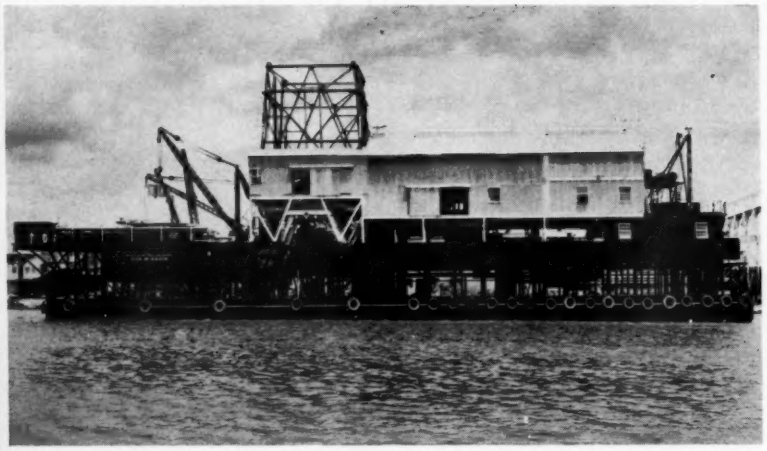
SAFETY FOR ANY RIG

Shallow, deep, land, offshore, or rework—no matter what kind of well you are drilling or what kind of rig you are using, Payne hydraulic power for blowout preventers and pressure operated gate valves will give you the greatest safety and economy. Our non-separator type accumulators require no pistons, bladders or diaphragms. Each twenty gallon accumulator contains a free-moving metal float which takes the place of rubber goods. Any volume of fluid is available with multiple units. Payne fast-acting automatic pumps keep accumulator pressures at 2,000 psi for normal operation and produce instant additional pressure for emergencies. Payne Controls may be located at one or several positions on the rig for maximum safety and convenience. If you are not now protected by these advanced Payne products, ask anyone who is (they are in use throughout the world) or give us a call—you'll be glad you did.

Payne MANUFACTURING COMPANY INC.

7317-7329 Canal Street HOUSTON, TEXAS
Office WA 8-2626

Export: R. S. Stokvis & Sons, 17 Battery Place, New York 4, New York



DON McMAHON, 188-ft. by 50-ft. by 12-ft. submersible inland drilling barge will be operated in the Gulf Coast area by Nicklos Drilling Company for McNisco, Inc., Houston.

Powerful submersible . . .

McNisco Gets New Rig

Drill barge built by Levingston for Houston firm gets power from 3 Superior engines to drill below 20,000 feet

When McNisco, Inc. of Houston put its brand new drilling barge, **Don McMahon**, to work in the Gulf of Mexico last month, it marked the eleventh rig being operated by the firm in the Gulf Coast area.

The firm's newest offshore unit is a powerful submersible capable of drilling to depths beyond 20,000 feet. Completed by Levingston Shipbuilding Company of Orange, Texas, it was named in honor of Don McMahon, president of McNisco.

The barge measures 188 feet by 50 feet by 12 feet and is equipped with the latest and most modern drilling equipment. Its rig is an Ideal Consolidated, type 130 powered by three Superior Model PTDS-8 engines. During drilling operations it will be operated by the Nicklos Drilling Company.

Upon completion at the Levingston shipyard, the new rig departed for its first location where it will drill for Texaco, Inc. Mound Point Well No. 3, State Lease No. 340 off Iberia Parish, Louisiana, approximately three miles from land. The test will be projected to approximately 16,000 feet.

Drilling equipment . . . The rig on the **Don McMahon** operates off a compound type drive as do the mud pumps. Wash down pumps consist of one Byron Jackson No. 2TLH and one Gardner-Denver No. FFFX-FE. There are two active mud pits measuring 16 feet by 16 feet by 8 feet with a capacity of 730 bbls. and a reserve pit measuring 15 feet, six inches by 24 feet by 10 feet with a capacity of 1220 bbls. In addition there is a settling pit with a capacity of 183 bbls. of mud.

Storage is also available for 3000 sacks of bulk cement.

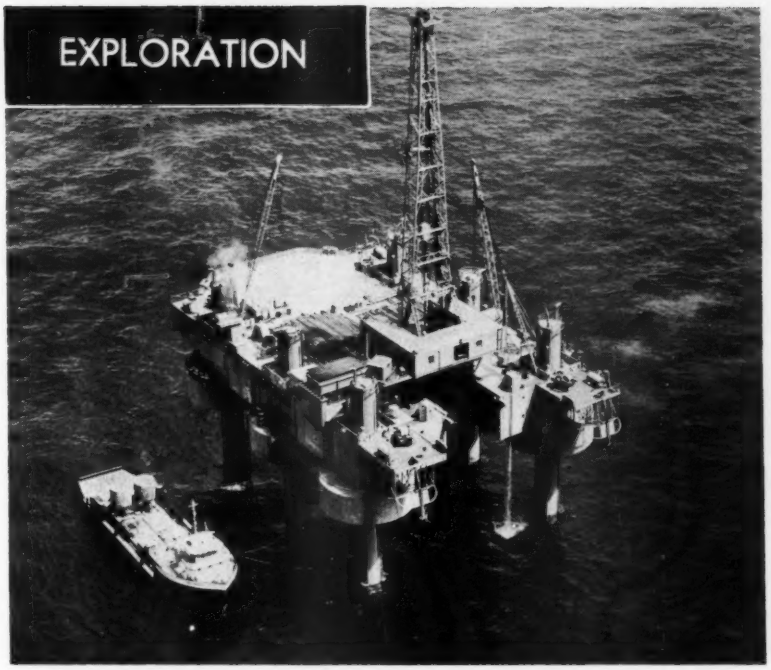
On the new rig are two 150 KW diesel-driven generators supplied by Electric Machinery Manufacturing Company and driven by GM Model 62306-RD diesel engines.

Quarters . . . The **Don McMahon** was provided with crew quarters that would provide maximum comfort and convenience for crew members during off duty hours.

The corrugated type house has a ceiling of accoustical paneling, with floors of Vina-lux tile and Asbestolith and walls of Marlite panels.

In the recreation room is a 21-in. table model television set, easy chairs, a coffee table and end tables.

Galley . . . Featured in the galley is an Akron Model 436 electric range, a Raetone reach-in refrigerator and Raetone freezer and a Frigidaire ice cube maker.



GAS DISCOVERY was completed recently in Eugene Island Block 199 for Placid Oil Company, Shreveport, Louisiana, from the big new mobile unit, the PETREL. Placid has released no production information on the well which was drilled to a depth of 16,020 feet.

First 1959 Hit Off Texas

Standard completes discovery off Galveston for 3300 Mcf of gas per day from medium zone

First discovery of the year off Texas has been completed by Standard Oil Company of Texas in Gulf of Mexico Federal Tract No. 140.

The discovery well, which is designated No. 3 on that lease was drilled 26 miles east of Galveston off the coast of Galveston County. Flow taken on a ¼-in. choke was 3300 Mcf of gas per day with a flowing tubing pressure of 2375 pounds. The wildcat was drilled to a total depth of 11,055 feet and plugged back to 7910 feet for completion at intervals of 7858 to 7870 feet.

Nearest production is Standard's No. 1 Federal 140 gas well, located about one mile northeast of the newest strike.

The new discovery, No. 3, was first drilled to a total depth of 9773 feet and abandoned. The operator then applied for a new permit and began its second and successful effort at the depth of 2032 feet.

Two New Oil Sands Tapped In Eugene Island Block 208

Two new oil sands have been opened in Eugene Island Block 208 field by Continental Oil Company.

The new reservoirs are productive at intervals of 7011 to 7016 feet and 7951 to 7960 feet in Conoco's No. A-3 OCS-0576 well off the coast of St. Mary Parish, Louisiana. Total depth of the well is 8352 feet.

Daily production from the lower zone was 207 bbls. of 47.5-degree gravity crude and 206 Mcf of gas. Tests made on a 1/8-in. choke also showed a gas-oil ratio of 997-1 and a flowing tubing pressure of 1925 pounds.

Upper perforations yielded a flow of 182 bbls. of oil and 103 Mcf of gas per day on a 1/8-in. choke. Operator recorded a tubing pressure of 800 pounds.

CONTRACT FEEDING and HOUSEKEEPING

for

Quarter Boats
Drilling Barges
Rig Tenders
Geophysical Boats

Write, Wire or Call for Proposal

MARINE CATERING SERVICE, Inc.

BOX 184, PETERS RD.
HARVEY, LOUISIANA
PHONE FO 6-9681

LOSS PREVENTION

LOSS PREVENTION SERVICE

The industry's finest, built into offshore oil insurance

Southern Marine's experienced loss prevention engineers constantly work with assureds and their employees to eliminate possible losses and resultant downtime of equipment. But should a loss occur, these technicians work just as diligently to quickly put your equipment back to work, earning income for you. Ask those who have used our Loss Prevention service how well it works.

Southern Marine's superior service, facilities and capacity cost no more—there is no charge for loss prevention service. Have your insurance representative talk with us before placing your offshore oil insurance.

SOUTHERN MARINE
& AVIATION UNDERWRITERS, INC.

610 Poydras Street, TUlane 5266, New Orleans 12

Mobile Units, Tenders, And Self-Contained Platforms Gulf Coast Area

OWNER	NAME	WATER DEPTH	PRESENT STATUS
Barnwell Offshore, Inc. Self-elevating 176′ x 176′ x 152′ with three 145′ legs	"Mister Cap"	to 100′	Drilling for Sinclair-Sohio, Block 190, Eugene Island
Blue Water Drilling Corp. Submersible	Rig No. 1	70′	Drilling for Shell Oil Co., Block 128, Eugene Island Area
The California Company Submersible 11′ x 90′ x 156′ with four 3′ x 10′ x 35′ pontoons	S-45		Main Pass, Louisiana, Rowan Drilling Co.
The California Company Submersible 12′ x 90′ x 190′, with four 4′ x 24′ x 50′ pontoons	S-55		Bay Marchand, Louisiana, Noble Drilling Co.
Coastal-Marine Drilling and Construction Corp. Submersible	Coastal Mariner No. 2		Completed well in Carancahua Bay. Now idle
Continental Marine Exploration Co. Submersible 230′ x 99′ with 54′ between fixed hulls	"M & H Drilling Platform No. 12"	To 30′	Tidewater's State Tract 128A
Coral Drilling Company Submersible 180′ x 151′ x 84′ with four pontoons	"Mr. Arthur"	to 70′	Bay Marchand, California Co.
Deepwater Exploration Co. Self-elevating overall 121′ x 118	"Deepwater No. 2"		Completely salvaged unit at LeTourneau, Vicksburg yard
Delta Marine Drilling Co. Submersible	"Chris Zeppa"	To 35′	Stacked
Dixilyn Drilling Corp. Self-elevating 194′ x 152′ overall. Three 175′ legs	"Julie Ann"	To 105′	Drilling for Shell Oil Co., Block 163, Vermilion Area
Gulf Marine Drilling, Inc. Submersible	Rig No. 1	22′	Drilling for Gulf Oil Corp. Block 24, West Delta, Well No. 1
Kerr-McGee Oil Ind., Inc. Submersible 13′ x 54′ x 160′ with two 13′ x 14′ x 110′ pontoons	Rig 40	to 22′	Drilling for Gulf Oil Corp., Vermilion Bay
Kerr-McGee Oil Ind., Inc. Submersible 13½′ x 72′ x 140′ with two 13½′ x 13½′ x 140′ pontoons	Rig 44	To 40′	Drilling for self et al, Block 28, Ship Shoal Area
Kerr-McGee Oil Ind., Inc. Submersible 142′ x 69′ x 13′6″, with two 10′ x 11′ x 146′ pontoons	Rig 45	To 35′	Drilling for Gulf Oil Corp., Key West, Florida
Kerr-McGee Oil Ind., Inc. Submersible	Rig 46	To 70′	Drilling for Gulf Oil Corp., Block 21, South Timbalier Area
Kerr-McGee Oil Ind., Inc. Submersible	Rig 47	To 70′	Drilling for Humble Oil & Refining Co., So. Timbalier
Louisiana-Delta Offshore Corp. Submersible 180′ x 151′ x 12′	Drill Barge Louisiana	To 65′	Drilling for Shell Oil Co. East Bay

OWNER	NAME	WATER DEPTH	PRESENT STATUS
Louisiana-Delta Offshore Corp. Submersible 156′ x 90′	Drill Barge Delta	To 25′	Drilling for Shell Eugene Island Area
Magnolia Petroleum Co.	Rig 52		Drilling in Cote Blanche Bay, St. Mary Parish
Movible Offsore Co. Submersible 200′ x 146′ x 67′	Movible No. 3	To 45′	Drilling for John W. Mecom, Block 45, West Cameron Area
Movible Offshore Co. Submersible 201′ x 211′ x 110′	"Movible No. 2"	To 80′	Drilling for Shell, Block 189, Eugene Island Area
Noble Barge Co. Twin-hull submersible 217′ x 100′	"Lloyd Noble S-66"	To 100′	Being built at Avondale Marine Ways
Ocean Drilling & Exploration Company Submersible 200′ x 300′ x 98′	"El Dorado"	To 70′	Drilling for CIMA, Gulf of Campeche, Mexico
Ocean Drilling & Exploration Company Submersible 132′ x 220′ x 58′	"Mr. Charlie"	40′	Drilling for Texaco, Block 17, Eugene Island Area
Ocean Drilling & Exploration Company Submersible 120′ x 180′ x 49′	"John Hayward"	30′	Drilling for California Co., Block 93, Eugene Island Area
Ocean Drilling & Exploration Company Submersible 200′ x 300′ x 93′	"Margaret"	To 60′	Drilling for Shell Oil Co., Block 27, South Pass Area
Ocean Drilling & Exploration Company Submersible 120′ x 180′ x 50′	"St. Louis"		Drilling for Midwest Oil Corp., Block 90, Eugene Island Area
The Offshore Company Self-elevating 8½′ x 70′ x 203′ with twelve 6′ dia. caissons	Mobile Unit No. 51		Bayou Bouef, Louisiana
The Offshore Company Self-elevating 13½′ x 117′ x 220′ with fourteen 6′ dia. caissons	Mobile Unit No. 52		Modification Orange, Texas
The Offshore Company Submersible 12′ x 74′ x 200′ with four 6′ dia. caissons	Mobile Unit No. 53		Drilling for J. Ray McDermott Co., Block 2, East Cameron Area
The Offshore Company Self-elevating 200′ x 104′ x 15′ with eight 12′ dia. towers	Mobile Unit No. 54		Drilling for Texaco and Pan Am., Eugene Island Block 207
The Offshore Company Self-elevating 200′ x 104′ x 15′ with eight 12′ dia. towers	Mobile Unit No. 55		Preparing for move to Trinidad
Penrod Drilling Company Submersible 196′ x 108′	Rig 50	44′	Eugene Island Area
Penrod Drilling Company Submersible 150′ x 190′	Rig 51	To 70′	Grand Isle Area
Penrod Drilling Company Submersible 198′ x 174′	Rig 52	100′	Eugene Island Area
Placid Oil Co. Twin submersible hulls, each 72′ x 178′	Petrel	To 100′	Eugene Island Area
Reading & Bates Offshore Drilling Company Self-elevating	"C. E. Thornton"	To 110′	Persian Gulf

THE CHARACTERISTIC DURABILITY OF INTERNATIONAL PAINTS MAKE THEIR USE A MATTER OF ECONOMY

Send for a complimentary copy of our recently revised booklet "The Painting of Ships." It is an outline of the latest approved practices in all marine maintenance.

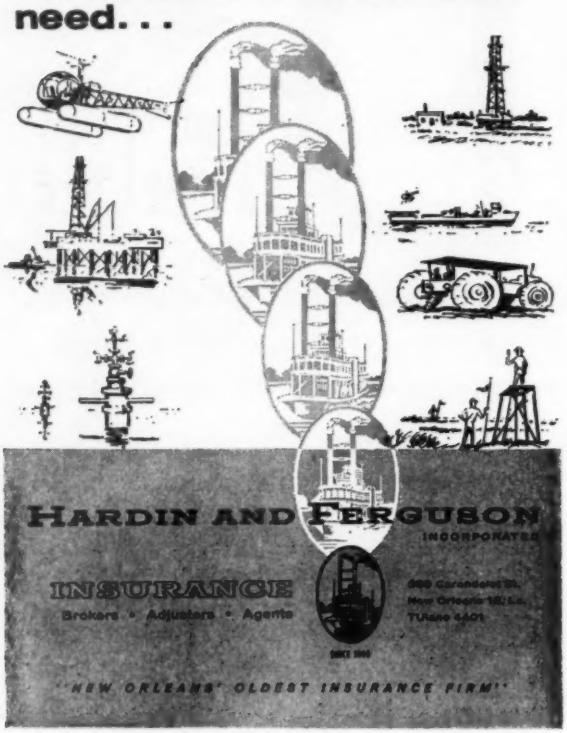
International Paint Company, Inc.

Offices:

New York 6, N. Y., 21 West St., Phone: WHitehall 3-1188
New Orleans 15, La., 628 Pleasant St., Phone: TWinbrook 1-4435
So. San Francisco, Cal., So. Linden Ave., Phone: PLaza 6-1440

Gulf Stocks at:

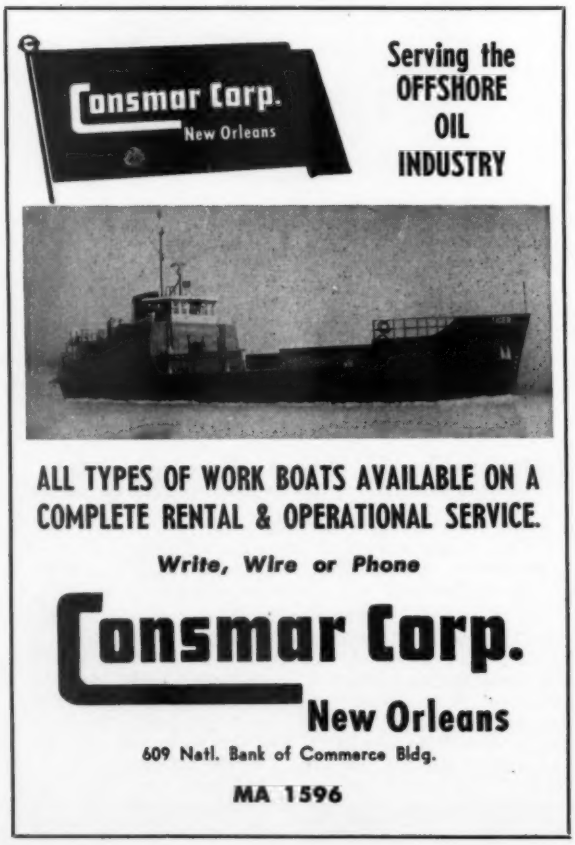
SAN ANTONIO MACHINE & SUPPLY CO. Harlingen, Texas, Phone: GArfield 3-5330
RIO FUEL & SUPPLY CO., INC. Morgan City, Louisiana, Phone: 5033–3811
SAN ANTONIO MACHINE & SUPPLY CO. Corpus Christi, Texas....Phone: 2-6591
ROSS-WADICK SUPPLY COMPANY Harvey, Louisiana, Phone: FIllmore 1-3433
TEXAS MARINE & INDUSTRIAL SUPPLY CO. Houston, Texas..Phone: WAlnut 3-9771
VOORHIES SUPPLY COMPANY New Iberia, La.....Phone: EM 4-2431
TEXAS MARINE & INDUSTRIAL SUPPLY CO. Galveston, Texas, Ph.: SOuthfield 3-2406
MOBILE SHIP CHANDLERY CO. Mobile, Alabama, Phone: HEmlock 2-8583
MARINE & PETROLEUM SUPPLY CO. Orange, Texas..Phone: 8-4323—8-4324
BERT LOWE SUPPLY CO. Tampa, Florida.....Phone: 2-4278



OWNER	NAME	WATER DEPTH	PRESENT STATUS
Rimrock Tidelands, Inc. Submersible	"Rimtide"	30'	East Cameron Area, Block 17
Sea Drilling Corp. Submersible	"Seadrill 2"	30'	Block 13, Vermilion Area
Southeastern Drilling Corp. Submersible 11' x 90' x 156' with four pontoons	Rig 22, Barge 8		Drilling for Kerr-McGee, Block 35, Ship Shoal area
Tidelands Drilling Co. Self-elevating Deck 258' x 104', pad 200' x 180' with four 10' dia. columns	"Mr. Gus II"	45'	Drilling for CATC Grand Isle, Block 40
Union Producing Co. Submersible 160' x 190'	Barge A	To 76'	On location in Block 116, Eugene Island Area
Universal Drilling Company Self-elevating	"Mr. Louie"	To 130'	Being outfitted in New Orleans
Zapata Off-Shore Company Self-elevating. 194' x 152' overall. Three 145' legs	"Vinegaroon"	To 80'	S/L 1446, Well No. 3, Block 86, Vermilion
Zapata Off-Shore Company Self-elevating 20' x 80' x 140', with three triangular legs	"Scorpion"		S/L 3535, Well No. 1, Block 17, East Cameron

Drilling Tenders

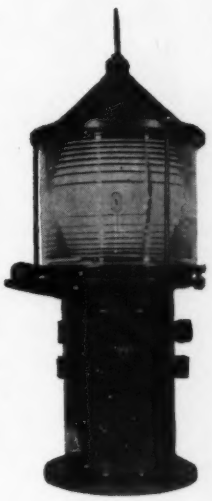
An-Son Offshore Drilling Co.	"Carl B. Anderson"		Drilling for CATC
The California Company Converted LST, 328' x 50'	S-21	25'	Bay Marchand, Louisiana, Noble Drilling Co.
The California Company Converted LST, 328' x 50'	S-22	49'	Bay Marchand, Louisiana, Loffland Brothers
The California Company Converted LST, 328' x 50'	S-23		Being mothballed
The California Company LST, 328' x 50'	S-24	37'	Bay Marchand, Louisiana, Noble Drilling Co.
The California Company LST, 328' x 50'	S-25		Bay Marchand, Louisiana Loffland Bros.
The California Company LST, 328' x 50'	S-26		Standby. Venice, Louisiana. Loffland Bros. rig
Coastal-Marine Drilling and Construction Corp. New tender, 272' x 56'	Howard S. Cole Jr. Coastal-Mariner No. 1		Sold to Pan American International for use in Persian Gulf
CATC Group New tender, 260' x 54'	"J. C. Craig"	90'	Eugene Island, Block 208
CATC Group New tender, 260' x 54'	"Carle Sharp"	101'	Ship Shoal, Block 199
CATC Group New tender, 260' x 54'	"Ernie Miller"	50'	West Delta, Block 45
CATC Group New tender, 260' x 54'	"Jack Cleverley"		Drydock
Deepwater Exploration Co. Converted LST, 328' x 50'	"Deepwater No. 1"		Block 174, Ship Shoal area
Delta Marine Drilling Co. Converted LST, 326' x 50'	"Joseph Zappa"		Stacked


Consmar Corp.
New Orleans
Serving the OFFSHORE OIL INDUSTRY
ALL TYPES OF WORK BOATS AVAILABLE ON A COMPLETE RENTAL & OPERATIONAL SERVICE.
Write, Wire or Phone
Consmar Corp.
New Orleans
609 Natl. Bank of Commerce Bldg.
MA 1596

OWNER	NAME	WATER DEPTH	PRESENT STATUS
Gulf Oil Corporation New tender	"Dolphin"		Completed placed in moth ball fleet at Orange, Tex., engines pickled, and rig stacked
Gulf Oil Corporation Converted LST, 328' x 50'	"Eagle"		Rig stacked at Morgan City, Louisiana
Gulf Oil Corporation New tender, 272' x 60'	"Pelican"		Block 130, S. Timbalier area, Salt Dome Prod. Co.
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-1		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-2		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-3		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-4		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-5		At Orange, Texas for storage
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-6		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-7		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-8		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-9		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-10		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-11		Standing by
Humble Oil & Refining Co. Converted LST, 328' x 50'	ST-12		"Q" Platform in West Delta, Block 30 field
Kerr-McGee Oil Ind. Inc. New Tender, 250' x 50'	"Kermac II" Rig 43		Waiting on location
Kerr-McGee Oil Ind. Inc. New Tender, 250' x 50'	"Kermac III" Rig 48		Preparing rig to move on CATC Block 124, Vermilion
Kerr-McGee Oil Ind., Inc. Converted YF, 260' x 48'	"Frank Phillips" Rig 39		Waiting on location
Llano Drilling Company New tender, 260' x 54'	"Clayton G. Dorn"		Under bareboat charter to Reading & Bates Offshore Drilling Co.
Magnolia Petroleum Co. Converted YF	"Gulf Coast Barge No. 2"		Out of Service
MCN Group Converted YF	MDT-1		Block 119, Eugene Island Area, Well C-6 drilling
MCN Group Converted YF	MDT-2		Out of Service
MCN Group Converted YF	MDT-3		Out of Service
MCN Group Converted YF	MDT-4		Out of Service
MCN Group Converted YF	MDT-5		Out of Service
MCN Group Converted YF	MDT-6		Out of Service
MCN Group Converted YF	MDT-7		Out of Service
Pan American Petroleum Corp. Converted LST, 328' x 50'	"Pan American 50"		Orange, Texas

the ONE MARINE LIGHT . . . for all locations

With Quickest Access
Absolute Reliability
Unique Safety Features



Exclusive design in the Tideland TL-2A marine light features the quickest, surest access clamps on the market, along with built-in moisture elimination, automatic 6 bulb lampchanger, and emergency steady light feature. The TL-2A with standard 200 mm lens is U.S. Coast Guard acceptable in ALL areas where private navigational aids are used. There is NO more practical, dependable, or economical marine obstruction lantern available!

TIDELAND SPECIALTY COMPANY INC.

7711 Bowie Street — Houston 12, Texas
916 Whitney Ave. — Gretna, Louisiana

• OIL FIELD
• INDUSTRIAL
• MARINE

Protective Coatings and Services

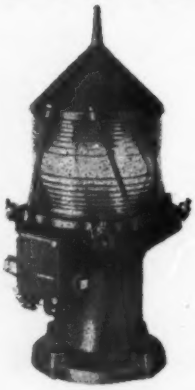
BRUTEM EPOXY AND POLYESTER RESINS — SKID PROOFING—KITS FIBERGLAS REINFORCING

Lion Nokorode Mastics and Rust Preventatives

INDUSTRIAL WATERPROOFING CO.

1139 GLENLEIGH DRIVE • HOUSTON 24, TEXAS
3936 BALDWIN BLVD. • CORPUS CHRISTI, TEXAS

DEPENDABLE, ECONOMICAL



aids to Navigation

WALLACE & TIERNAN

Buoy and Structure Lantern

The FA-143 is a lantern of lightweight, durable and watertight design that ensures dependable, unattended and economical operation. Available in two types—aluminum or bronze.

EXCLUSIVE MARINE DISTRIBUTOR
In Gulf Area for
Foster Welded All-Aluminum
Refrigerators and Freezers

BYRNE & RICE
SUPPLY COMPANY
NEW ORLEANS, LOUISIANA
1150 Camp Street Phone RAymond 7138

INSURANCE

ADJUSTERS OF AVERAGE

Facilities for handling insurance requirements for the Marine, Shipping and Oil Industries.

DEEP SEA • OFFSHORE
INLAND WATERS
World Wide Service

ADAMS & PORTER
ESTABLISHED 1907

Cotton Exchange Bldg. Phone: CApitol 7-5181
Cable Address: ADPORT
HOUSTON, TEXAS
and at
NEW YORK MARACAIBO SAO PAULO
RIO DE JANEIRO

OWNER	NAME	WATER DEPTH	PRESENT STATUS
Phillips Petroleum Company Converted YF, 260' x 48'	"K. S. Adams" Rig 40		Sold to be converted to pipe laying barge
Reading & Bates Offshore Drilling Company	"J. W. Bates"		Persian Gulf
Reading & Bates Offshore Drilling Company	"George M. Reading	71'	Drilling in Block 120, Vermilion Area for CATC
Reading & Bates Offshore Drilling Company	"J. C. Craig"		Drilling in Block 208 Eugene Island Area for CATC
Reading & Bates Offshore Drilling Company	"Clayton G. Dorn"		Drilling in Block 208, Eugene Island Area for CATC
Southeastern Drilling Corp. Converted YF	Rig 12 Barge 9		Shut down, Industrial Canal, New Orleans
Zapata Off-Shore Company Floating drill barge	"Nola No. 1"		Drilling in Block 84, W. Delta Area

Self-Contained Platforms

COMPANY	DESCRIPTION	YEAR BUILT	LOCATION	WATER DEPTH
CATC Group	110' x 146'	1956	Block 45, West Delta	50'
CATC Group	110' x 146'	1957	Block 47, Grand Isle	88'
Dixilyn Drilling Corp. Rig #7	120' x 145'	1956	Rig removed and in storage at Dupont's Bayou Bouef yard	
Gulf Marine Drilling, Inc. Rig #2			Bayou Bouef, awaiting location	
Gulf Oil Corporation	40' x 100'	1957	Rig Stacked at Morgan City, La.	
Humble Oil & Refg. Co. Rig #50	78' x 200'	1956	Block 16 Field, "L" Platform, Grand Isle Area	50'
Humble Oil & Refg. Co. Rig #54		1958	"O" Platform, West Delta Block 30 field	
Mecom Petroleums	82' x 193'	1948	Rig removed from platform	34'
Phillips Petroleum Co.	85' x 140'	1955	Block 184, Eugene Island Area, vacated, platform remains	84'
Phillips Petroleum Co.	88'9" x 140'	1955	Block 129-A, Eugene Island Area, platform inactive	52'
Phillips Petroleum Co.	88'9" x 140'	1956	Block 172, Eugene Island Area, vacated platform	77'
Phillips Petroleum Co.	88'9" x 140'	1956	Block 191, Eugene Island Area, platform inactive	81'
Phillips Petroleum Co.	88'9" x 140'	1957	Block 129, Eugene Island Area, platform inactive	57'
Pure Oil Company Converted LST	328' x 50'	1958	Orange, Texas	
Pure Oil Company	52' x 106 with 51' x 82' pipe rack	1957	Well completed, rig removed	72'
Shell Oil Company	55' x 110'	1958	Block 176, Eugene Island Area, Platform inactive	86'
Sinclair Oil & Gas Co.	118' x 142'	1957	Block 175, Eugene Island area (wells shut in)	85'
Sinclair Oil & Gas Co.	118' x 142'		In storage at McDermott Bayou Bouef yard	
Sinclair Oil & Gas Co.	80' x 180'	1955	Block 15, South Timbalier Area, Platform on Production	7'
The Superior Oil Co.	96' x 225'	1958	Drilling B-3, Block 76, Vermilion Area	
Union Oil Co. of California			B-1, Block 76, Vermillion Area, Southeastern Drilling Corp., Rig 7	

WELDED STEEL B BARGES & TUGS

QUALITY BARGES FOR ALL PURPOSES
DESIGN • BUILDING • LEASING

H. J. BRANIGAN & COMPANY
75 West St., New York 6, N. Y.
HAnover 2-4680

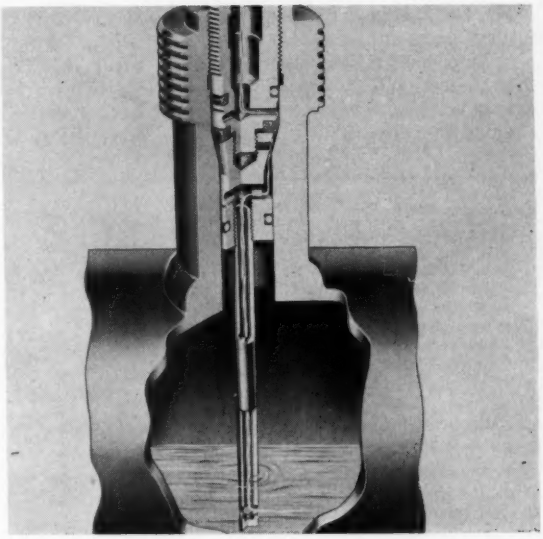
Simplified Product Sampling Tool Developed

A simplified corrosion survey instrument for taking product samples under full pressure and normal operating conditions has been placed on the market by Cosasco Division of Perfect Circle Corporation.

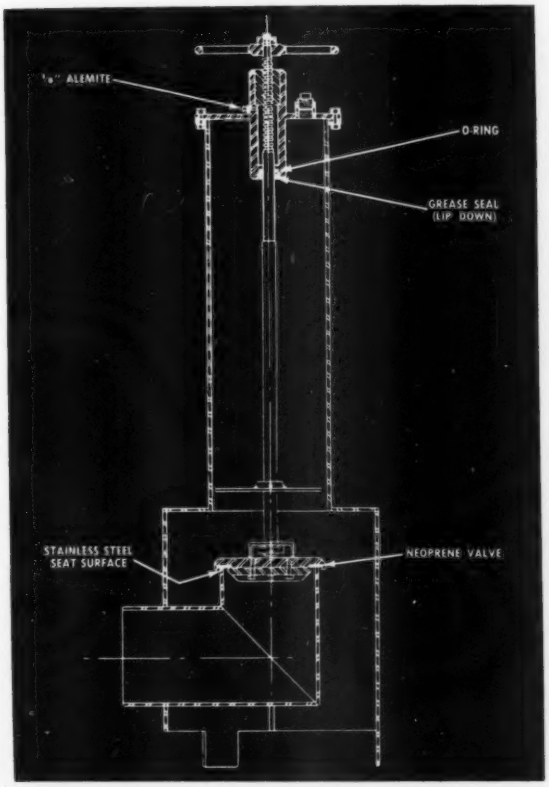
The product sampler which is a modification of Cosasco's patented access fitting principle, permits line fluids or gases to be sampled at will without system shutdown. It incorporates special design features for sealing off the top of the line or vessel, thus permitting samples to be taken from the bottom or any other desired position in the line.

The new tool consists of an access fitting body whose bore has a tapered seat and a set of fine machined threads to accommodate a stainless steel gage carrier plug. The lower end of this plug accommodates a specially designed blocking and packing nut, also of stainless steel, from which the hollow sampling tube is suspended.

To prevent product samples from being inadvertently taken from the top of the line, the packing nut is fitted with an O-ring seal. For further information write **Cosasco Division of Perfect Circle Corporation, 11655 McBean Drive, El Monte, California.**



New Concept In Mud Suction Valves



A completely new concept in mud suction valves has been introduced by Texas Iron Works, Houston.

Identified as the T-I-W Model C-847 mud valve, the rugged unit was designed for ease of operation. Manufacturer says it positively will not sand up.

The entire valve assembly can be removed from its housing installation, for inspection or repair, without disturbing the mud system piping or emptying the mud pit.

For further information write **T-I-W, P. O. Box 16068, Houston, Texas.**

Log With Pipe In Hole

Sun Oil Company scientists have released exciting news on a new tool which permits electric logging of freshly drilled formations while the drill pipe is still in the hole.

Otis Engineering Company of Dallas already has been licensed to construct, rent and service the new instrument. Otis expects to offer the tool's services commercially within a year.

The device consists of a self-contained recording mechanism which is pumped down inside the drill pipe whenever a log is desired. An electrode assembly projects out through one of the mud passages of a jet bit. Logs can be recorded during the normal process of coming out of the hole, or the tool can be recovered on a wire line.

For further information write **Otis Engineering Corporation, P. O. Box 35206, Dallas, Texas.**

Hold-Down Anchor For Marsh Pipelining

A positive solution to the river and marsh land hold-down problems is an expanding anchor and pipe saddle perfected by Grip-Tite Company of Winterset, Iowa.

The Grip-Tite pipe line anchor assembly is designed specifically for protection to pipe coating and for permanent hold-downs of all kinds of pipe line construction. Manufacturers state the cost is only a fraction of cast iron or concrete weights, and no heavy equipment is needed for installation.

The assembly is made of certified malleable iron and the pipe saddle is made of 10 gauge sheet steel. For further information write **Grip-Tite Manufacturing Company, P. O. Box 111, Winterset, Iowa.**

Magcobar Develops New Mud Dispersant

A new all-purpose dispersant for oil well drilling muds has been developed by Magnet Cove Barium Corporation.

The new thinner called Spersene is being produced by chemical processing of concentrated lignin liquor derived from a paper-making operation. Laboratory tests show that it performs well in all muds. Also, its compatability eliminates the necessity of using selected dispersants for particular mud conditions.

It has good solubility in both hot and cold water, and even sea water. It improves filtration control by aiding the mud to form a more desirable cake, resulting in a lower fluid loss than can be expected with other thinners.

For further information write **Magnet Cove Barium Corporation, P. O. Box 6504, Houston, Texas.**

Inflatable Packer Gives Positive Seal

Problems of obtaining positive seal in open hole are being solved by a permanent type inflatable packer manufactured by Lynes, Inc. of Houston.

The tool designed to be used by field personnel without outside assistance has proved a valuable aid in such waterflood and producing operations as isolation of thief zones, selective treatment of multi-zone production wells, and effective seal below old or uncemented casing. It seals in irregular wall open hole up to twice the deflated diameter of the inflatable packer.

Selective injection can be maintained down the tubing below the packer element, down the annulus above the packer element or both.

The tool is released by rotation of the tubing string to the right to open relief slots to the packer element. For further information write **Lynes, Inc., 7042 Long Drive, Houston, Texas.**

GULFPORT BUILT . . .

Tug ZEUS, 103' x 25' x 13'— 1200 HP General Motors Diesel Gear Drive tug, built for Intracoastal Towing and Transportation Corp., Houston, Texas. Delivered August 13, 1957.

Gulfport Shipbuilding Corporation builds many types of fine marine equipment for the oil industry . . . derrick barges, tugs, dredges, cargo barges, drilling platforms, seismic vessels, crew and cargo boats, and fast, rugged cruisers for the inshore oilfields . . . Whatever your problem, you are in capable hands at Gulfport

BUILDERS AND DESIGNERS
All-Welded Steel Tugs, Barges, Vessels

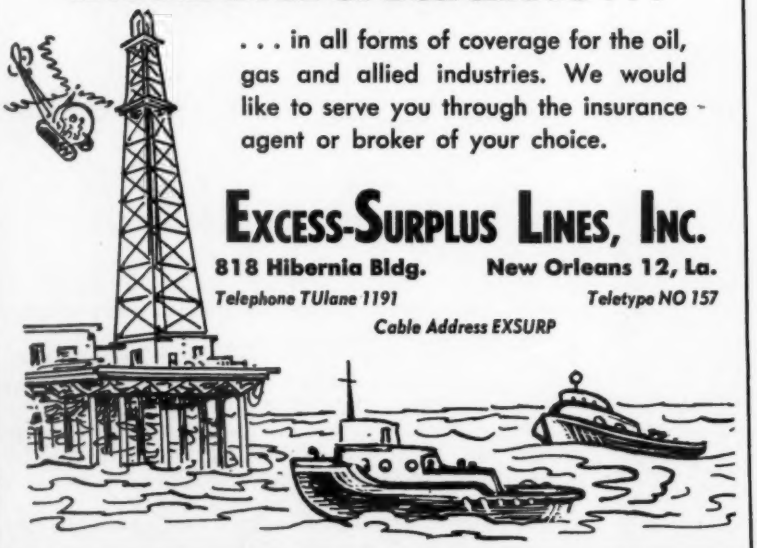
GULFPORT SHIPBUILDING CORPORATION

"On the Highway to the Offshore Oilfields"

Phone YUkon 2-6486 **PORT ARTHUR, TEXAS** **P. O. Box 1179**

"Gulfport Tugs for Tough Towing"

INSURANCE SPECIALISTS . . .



. . . in all forms of coverage for the oil, gas and allied industries. We would like to serve you through the insurance agent or broker of your choice.

EXCESS-SURPLUS LINES, INC.

818 Hibernia Bldg. **New Orleans 12, La.**

Telephone TUlane 1191 *Teletype NO 157*

Cable Address EXSURP

SERVICE PERSONALITIES . . In The NEWS

Shults Elected President Of Mid-Continent Supply

Thomas N. Shults has been elected president of Mid-Continent Supply Company filling a vacancy left by D. H. Thornbury who was recently elected chairman of the board and chief executive officer.

At the same time P. Z. Hilliard, general division manager, was promoted to vice president.

Shults joined Mid-Continent in 1939 at the Fort Worth headquarters, later holding assignments in Kermit, Texas, and Tulsa, Oklahoma. For the past 10 years he has been in the firm's export division in New York. He is a native of Cuero, Texas, and a graduate of Texas A & M College.

Security Engineering Division Names Helies General Manager

John C. Helies has been appointed general manager for Security Engineering Division, branch of Dresser Industries, headquartered in Dallas where it manufactures rock bits and drilling tools.

Following the recent resignation of C. L. Lane as president and general manager of Security, Helies was also named executive vice president, taking over the general management of the company. Lane will be engaged in business interests in the East.

Prior to his association with Security and a four-year affiliation with Dresser Industries, Helies was general manager for one of General Electric Company's decentralized operations.

Oil Base, Inc. Erects New Lafayette, Louisiana Plant

A new plant has been erected by Oil Base, Inc. at Lafayette, Louisiana, for the manufacture and supply of liquid oil base drilling fluids.

Facilities include tank storage capacity of 3500 bbls. for Black Magic Premix and Supermix, a warehouse for additives, bulk barite storage and a small laboratory.

Hal Farmer, district manager, is in charge and is assisted by Steve Curry. Headquarters and main plant for Oil Base, Inc., are at Compton, California.

Ogburn And Weber Establish New Oil Field Anchor Firm

H. R. Ogburn and Paul Weber, both formerly with Grip-Tite Manufacturing Company, have, with their associates, formed a new manufacturing company, which will be known as Ogburn-Weber Manufacturing Company.

The company will be located in Marshall, Texas, and all products will be shipped from Marshall.

Ogburn designed and introduced the first successful Grip-Tite anchors to the oil and pipe line industry. He was with this company for 24 years. Paul Weber joined Ogburn approximately ten years ago, to work with him in sales and service. The new company will manufacture a full line of earth and rock anchors for the oil industry.

Muir Appointed Manager Of New Logging Station

David Muir, district engineer for Empire Geophysical, Inc. of Fort Worth has been named manager for a new logging station opened by the company in Jackson, Mississippi.

Muir has been with Empire since 1957 and formerly served in Odessa. A graduate electrical engineer, Muir was employed by Magnolia Petroleum Company in their seismic department for 13 years.

Empire's VS Acoustic log provides five simultaneous logging curves on one run of the tool.

Industrial Advertising Agency Formed Recently In Houston

A new industrial advertising agency, The McCarty Company Advertising, Inc., recently opened in Houston. This Texas corporation is associated with the international McCarty Company organization.

DISTRIBUTION AGREEMENT has been finalized for sale of Ohio Injector Company valves throughout the United States by Jones & Laughlin Supply Division. Left to right are W. L. Wolfe, vice-president—sales for J&L; Rainey Elliott, president, J&L; Roger E. Bremer, executive vice-president of OIC; G. R. Winder, vice president—marketing, OIC.

FOR SALE! CLASSIFIED!

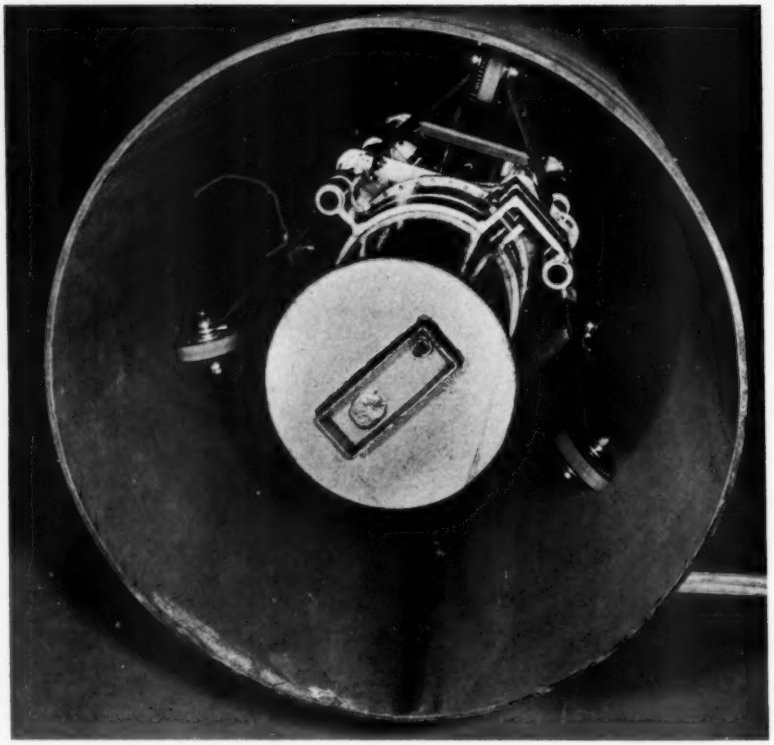
ATTENTION SUPERIOR AND CLEVELAND ENGINE OWNERS

We can save you several thousand dollars of expense when your PTD or G 510 Superior blocks are leaking water at the bottom liner seals or when the top liner gasket seat is cracked. By having portable equipment, and by removing only pistons, cylinder heads and manifolds, your down time is cut to a minimum. For further information call or write COASTAL CASTING MARINE SERVICE, 2903 Gano, Houston, Texas, Phone CA 8-7885, Nites ME 5-0391.

NEW TWIN-DISC
Marine Reduction and Reverse Gears
RATIO 3.05:1
MG 150 MODEL X8708
Fits any GM 6-71 marine engine—offered right or left hand. Buy now while you can choose. Price: $775 each, F.O.B. warehouse, Baltimore.
The Boston Metals Co.
313 E. Baltimore St. Baltimore 2, Md.
ELGIN 5-5050 LEXINGTON 9-1900

FOR THE OFFSHORE OIL FIELDS . . .
MARINE
•
ELECTRICAL
•
INDUSTRIAL SUPPLIES
L. F. GAUBERT & CO. INC. NEW ORLEANS, LA.
L. F. GAUBERT & CO.
700 S. Broad St. New Orleans, La.

To keep informed on vital marine oil developments—
Subscribe To OFFSHORE
(2 Years For $3)
P. O. Box 977, Conroe, Texas



NEW MACHINE developed by Travel-Ray Corporation is said to insure 100 percent weld soundness at less than one half the cost of former methods.

New X-ray device . . .

Pipe Welds Made Sure

"Travel Ray" radiographs to 1.5 percent sensitivity all welds in 40-ft. of pipe in less than a minute

A new machine which can radiograph every inch of every weld in a 40-ft. length of pipe in less than one minute has been announced by the Travel-Ray Corporation of Houston.

The new equipment, trade-named "Travel-Ray", incorporates an X-ray tube of patented design which projects a narrow beam of parallel rays only, permitting radiography of the longitudinal welds in pipe sections while the X-ray source is in motion. The relative speed of the machine virtually eliminates the "scatter" radiation problem inherent in stationary radiography by conventional techniques. Sensitivities of 1 to 1.5 percent are obtained as a result.

According to Byron Dönzis, Travel-Ray president, it is the first and only practical method of radiographing every inch of every weld, both longitudinal and circumferential, at speeds up to 40 feet of pipe in 45 seconds. Up to 2000 feet of pipe can thus be X-rayed in one continuous operation without stopping the Travel-Ray machine.

Pipe can be Travel-Rayed at the mill, in the field, at river-crossing sites, and elsewhere, vastly accelerating pipeline operations at every stage. The Travel-Ray equipment can also be used to radiograph only circumferential welds if desired, which it does much more rapidly than conventional equipment.

The equipment is easily adjustable for pipe diameters from 12 through 36 inches, features special six- and 12-wheel drive crawlers, and offers variable band width, speed, and power up to 250 kilovolts. A quick-disconnect cable eliminates the need for reversing the motor at the end of the pipe section, and a patented rail system is available for pipe mill and other high-production applications.

1200 St. Charles Ave. MA 5281 New Orleans, La.

BEDELL & NELSON ENGINEERS

Incorporated

DESIGN — SUPERVISION — REPORTS

Bridges, Docks, Buildings, Foundations, Marine Structures
Power Plants, Roads and Railroads, Shops, Utilities

HOUSTON
GALVESTON } Dickinson 8-3401

NEW ORLEANS: WHitehall 9-2713

THOMAS L. STANLEY, JR.

Consulting Marine Engineer
SURVEYOR — APPRAISER
LOSS PREVENTION — CLAIM INVESTIGATION

Cable: "STANTEX"
Galveston

3722 BAYOU CIRCLE
Dickinson, Texas

L. K. HOMYER *marine consultant*

503 THIRTY-SECOND STREET, NEWPORT BEACH CALIFORNIA
ORiole 3-7353

INSIDIOUS SCOUR

analysis & mitigation via patent insulators

CUNNINGHAM ENGINEERING COMPANY

4796 Port Arthur Hwy. Beaumont, Texas

DESIGNS
SUPERVISION

SURVEYS
CONSULTATION

Arthur D. Darden

NAVAL ARCHITECT
AND MARINE ENGINEER

JACKSON 2-0274
505 CIVIC CENTER BUILDING
NEW ORLEANS 12, LOUISIANA

ROBERT H. MACY

Naval Architect and Marine Engineer

Designs
Reports

Estimates
Consultation

Specializing in Work Boats and
Floating Equipment for Offshore Drilling

Phone SOuth 2-5667 P. O. Box 711
Pascagoula, Mississippi

Eustis Engineering Company

Consulting Foundation Engineers
Borings — Test — Analyses
for Offshore Structures

3635 Airline Highway VE-5-8476 Metairie, Louisiana

Investigate our hydrotaxis tripod. If you are interested in automaton of tower location moves for up to 500% less cost than any known on or offshore operations.

JACK CASEY

Hydronamic Design Engineering

PHO. 1078 MERMENTAU, LA. P. O. BOX 175

Geer Studio, Inc.

INDUSTRIAL
PHOTOGRAPHY

We specialize in pictures for the oil industry — oil rigs, equipment and boats. Aerial photography, color and 16-mm. motion pictures.

Call Jack Beech

JA 2-7419

709 Royal Street
New Orleans 16, La.

THE PHOTO MART, INCORPORATED

Jesse T. Grice
Photographer

COMMERCIAL • AERIAL
INDUSTRIAL

owner of the world's largest collection of

OFFSHORE RIG
PHOTOGRAPHS

COLOR—BLACK & WHITE

914 7th St.
MORGAN CITY, LOUISIANA
Phone 5403
P. O. Box 863

"Pictures Tell The Story — May We Show You"

FINER EQUIPMENT—

FOR FASTER, MORE EFFICIENT SERVICE!

The 51' ROBIN ANN is one of a fleet of crewboats maintained by Robin Boat Rental Service, Inc. to serve the oil industry offshore. Included in the fleet are many other 51' boats of this type built by Equitable Equipment Company, Inc. of New Orleans. The ROBIN ANN is built in accordance with American Bureau of Shipping standards and U. S. Coast Guard requirements for carrying passengers for hire. She is ruggedly constructed and seaworthy, but outfitted on par with the finest pleasure yachts afloat.

Crewboats for Sale or Charter to VENEZUELA

Call us for: Crewboats, Seagoing Tugs, Big Tenders

ROBIN BOAT RENTAL SERVICE, Inc.

Phone FOrest 6-7217 - 8

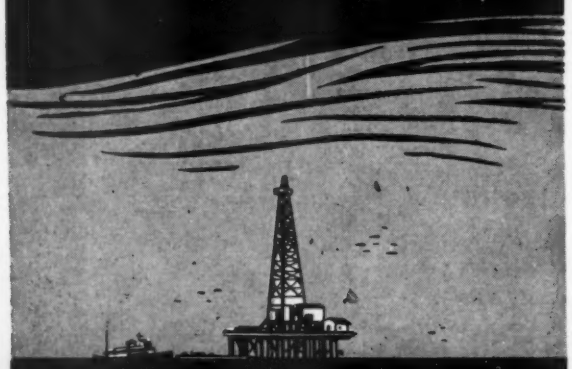
2121 8th St. Harvey, La.

AN EXPERIENCED OFFICE FOR THE OFFSHORE DRILLING CONTRACTOR

Maritime

INSURANCE AGENCY, INC.

NEW ORLEANS



827 PERDIDO ST. • JA 5-7011

The Slush Pit . . .

Ants have solved the time problem. They can work all the time and still manage to attend all the picnics.

A toolpusher visiting a school for the deaf and dumb was amazed at the effluency with which the speechless couples spoke with their hands as they danced. A friend who understood sign language translated some of the conversations for him.

Suddenly he noticed two men in a corner gesticulating wildly with their hands partially concealed beneath their coats. "What are they doing?" he asked.

"Oh, they're telling dirty jokes," the friend replied.

"Go ahead and marry that rat if you want to live in a hole the rest of your life," said the mother mouse to her grown-up daughter.

Girl to her friend, "I didn't mind losing my heart to that roughneck, but when he started searching for it . . ."

Bum: "Scuse me, sir, but could you spare a dime for a cup of coffee?"

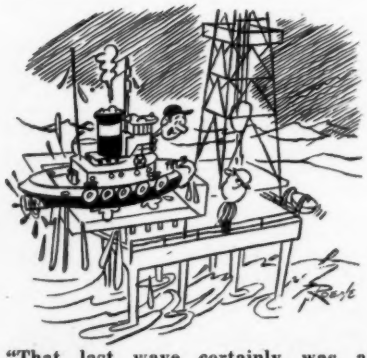
Passerby: "No, my good man, but I will buy you some breakfast."

Bum: "Aw g'wan, I've already et three breakfasts this morning just trying to get a dime for a cup of coffee."

Two cockroaches lunched in a dirty sewer and excitedly discussed the spotless glistening new restaurant in the next block.

"I hear," said one, "that the refrigerators shine like polished silver. The floor sparkles like diamonds. It's so clean."

"Please," said the second cockroach in disgust, "not while I'm eating."



"That last wave certainly was a whopper!"

G&H Can Tow It... Anytime, Anywhere

Union Producing Company's giant Drilling Barge "A", currently drilling in Eugene Island Block 116, was towed from Galveston to first location ... off St. Mary Parish, Louisiana ... by G & H tugs Juno and Grampus.

Newest mobile unit christened into offshore drilling service, Barge "A" ... tall as a 25-story building when mast is raised ... is designed to operate in water depths to 70 feet.

Pioneers in Gulf Coast tidelands towing, G & H can capably handle any towing assignment . . . with speed, safety, efficiency, and ultimate economy to your offshore operating program.

With a modern diesel fleet of 700 to 1700 hp tugboats, for every towing requirement ... and over 35 years of diversified marine experience ... G & H can expediently tow anything that floats ... anytime, anywhere.

Call the G & H office nearest you today, and let towing experts help you plan your next offshore moving job.

DAY OR NIGHT PHONE

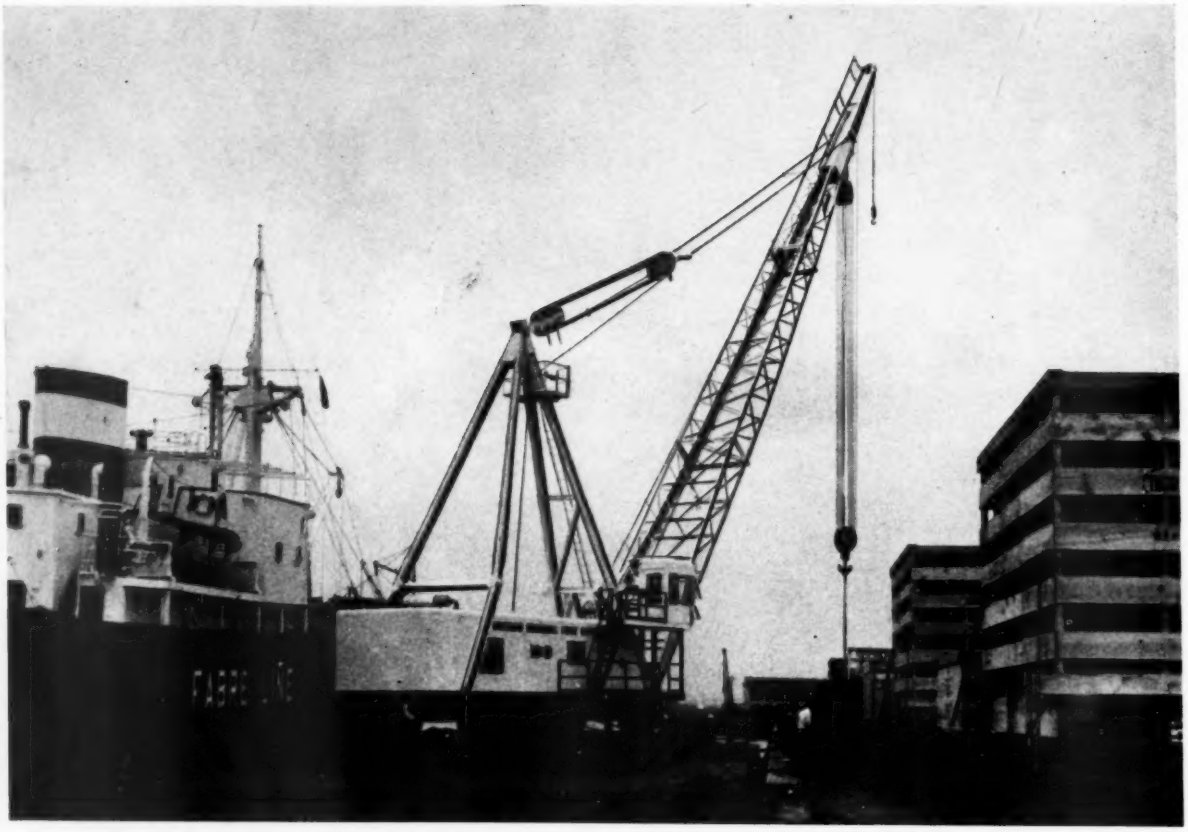
Galveston SO 3-6468 or SO 3-4673 • Houston WA 8-5408 or MI 5-3614
Corpus Christi TU 4-8791 • New Orleans JA 5-8057

G and H

TOWING COMPANY INC.

FLEET OF MODERN 700 TO 1700 HP TUGBOATS FOR EVERY TOWING REQUIREMENT

Corpus Christi • Houston • GALVESTON, 509 Texas Building • New Orleans



Great Lakes' Largest . . .

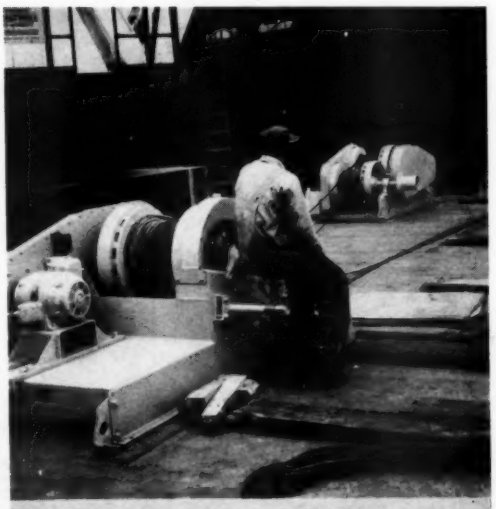
Clyde Whirley Handles 110 Ton Lifts For Chicago Regional Port District

Now boasting the most powerful crane on the Great Lakes, the newly developed Lake Calumet Harbor is well equipped to handle the heaviest cargoes shipped via the Great Lakes waterway.

Installed recently by the Chicago Regional Port District, this Whirley, another addition to Clyde's imposing list of port installations, has a load capacity of 110 tons at a 45 foot radius and 38 tons at 125 foot radius. The Whirley has a full-revolving 110 foot boom with 20 foot extension and is barge mounted to service the entire harbor. Two Clyde deck winches shift the barge along the dock or vessel as operations require.

Clyde Whirleys have long been acknowledged as cargo-handling workhorses of the world's leading ports. Operating with buckets, hooks or magnets, Whirleys have an unequalled reputation for reducing costly tie-up time for vessels and for fast, dependable, low-cost handling of any type cargo.

Write or phone our Marine Engineering Division for complete specifications on Clyde Whirleys, custom-engineered to best serve your particular needs.



Two Clyde electric hoists give the Chicago Regional Port District's Whirley 'run of the harbor'. Barge mounting saves dock space, always at a premium in busy ports.

CLYDE RIC

CLYDE IRON WORKS, Inc.

Established 1899

DULUTH 1, MINNESOTA

HOISTS : DERRICKS : WHIRLEYS : UNLOADERS
BUILDERS TOWERS : CAR PULLERS : ROLLERS